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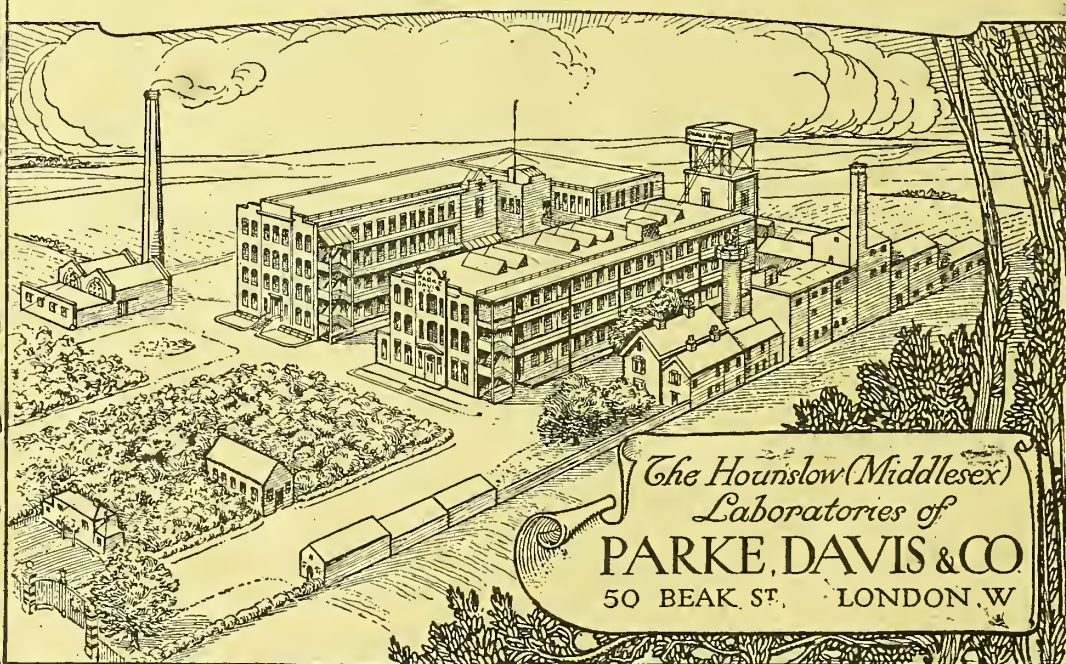
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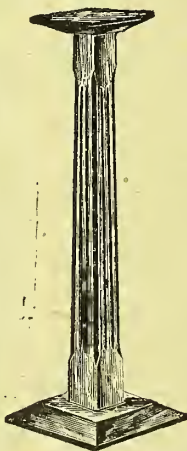
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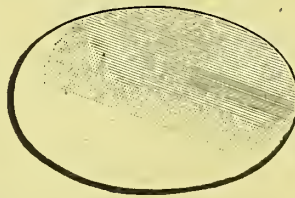


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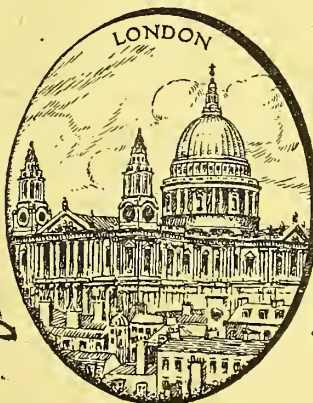
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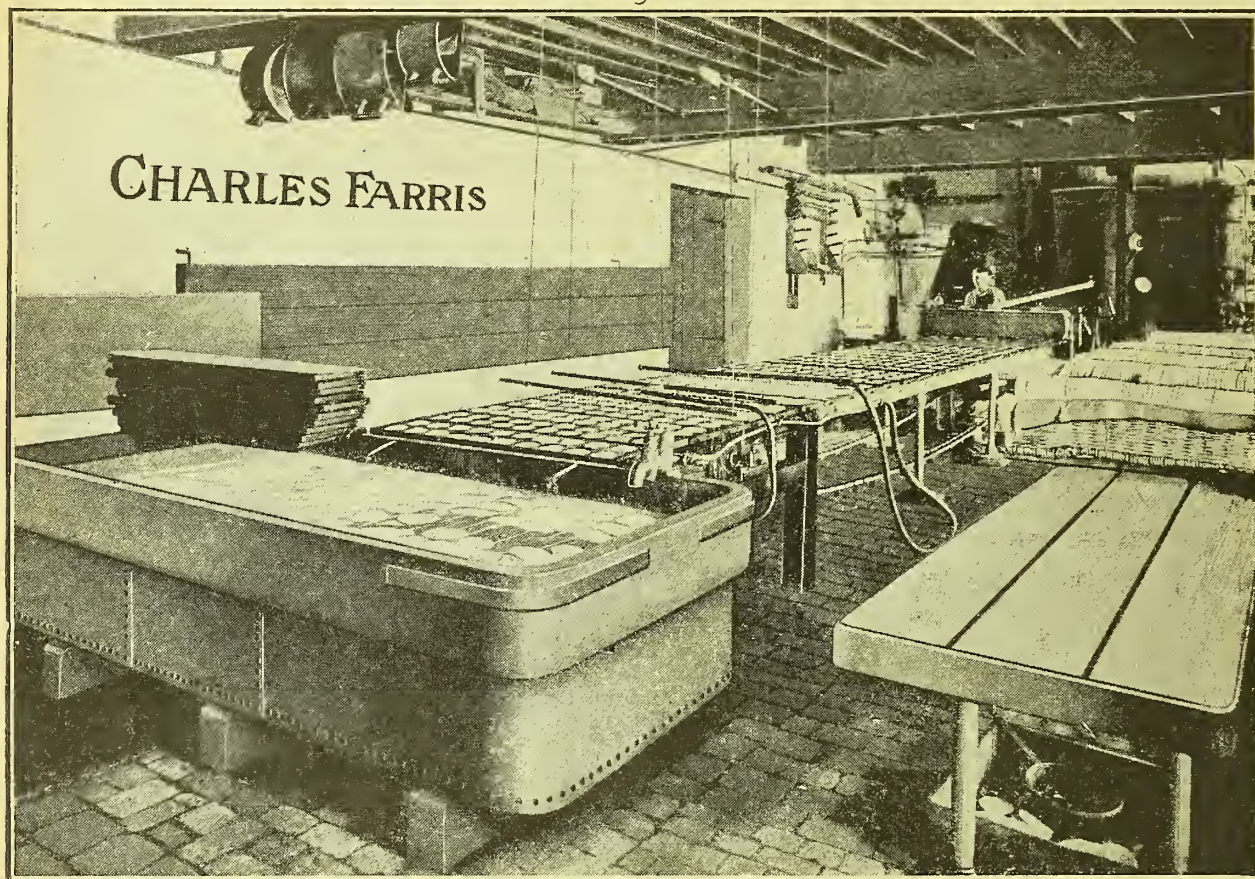
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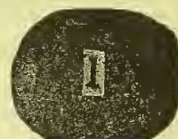
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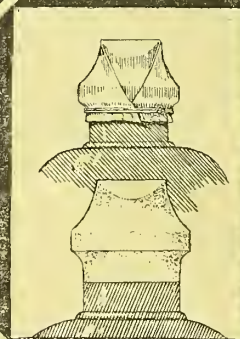
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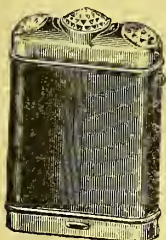
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WHITE PHIALS.— $\frac{1}{2}$ oz., 1 oz., $1\frac{1}{2}$ oz., 2 oz. Plain or teaspoons.

BLUE LOTION BOTTLES.— $\frac{1}{2}$ oz., 1 oz., $1\frac{1}{2}$ oz., 2 oz., 3 oz., 4 oz.,
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We send six gross assorted or otherwise, carriage paid within
seven miles, and to certain stations. Particulars on application.

CORKS.

Good Quality. For 6 and 8 oz. bottles, $\frac{1}{6}$ per gross in 6 gross bags.
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Orders sent to either establishment have attention.

Established 100 Years.

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**This is the Subject
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THERE is nothing of more National
Importance than the people of
this country being kept "Fit,"
at this crisis of the world's history.
Every chemist should advertise his
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Cough Mixtures, Nerve and Tonic
Mixtures, Rheumatic Mixture, and
Embrocations. Secure your Labels
and Cartons, for there is a time
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buy them for money. Send to Thomas
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This particular pin was designed especially for our subscribers. It is made in both dark German silver finish and in gold plate.

Take your choice. They are so made that the eyes inside the skull oscillate with every movement and show the fire of the stones. They are wonderfully interesting and fascinating, and are sure to please both the wearer and his friends. The price for one is 2s.; with THE SPATULA 1 year, 6s. State which kind you want.

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The ideal reconstructive nerve food.

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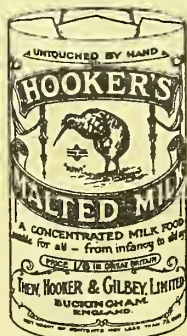
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"ALL BRITISH" VACUUM FLASK,

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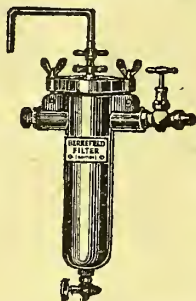
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To the Trade

Retailers need have no
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are goods that sell
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All advertising matter—Booklets, Window Displays
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CURES ALL SKIN TROUBLES

Pays you better to handle than any other Skin Remedy. On best terms, 6 dozen 1/3 size order, it costs you (with bonus 18 extra boxes free) about 8d., and selling at a P.A.T.A. minimum of 1/3, it yields about 80 % profit to Retailer, and even 3 dozen carries a bonus; besides we will Advertise you as Agent in your Local Weekly. Ample supplies of Showcards, Free Samples, Window Bills, and very attractive Counter Display Boxes.

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It is effective.

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It sells readily.

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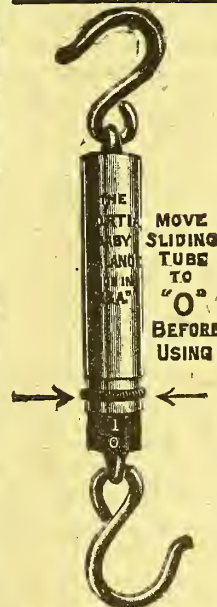
THIS IS WHAT THE "C. & D." SAYS OF IT:

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This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

A Profitable Seller



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(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
1 1/6	1/6
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Hang a balance in your window with our dainty cut-out showcard in colours on the lower hook, showing a baby actually being weighed, and you will soon be re-ordering.

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Obtainable through all Wholesale Houses.



THE FRENCH NATURAL MINERAL
— WATER. —

VICHY-CÉLESTINS

DISORDERS of the **LIVER, GOUT,**
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VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the **SOLE AGENTS:** **INGRAM & ROYLE, Ltd.,** Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

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SHOULD STOCK**

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Quick Seller. Big Profits. Quarter of a Century's Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in Packets, 2 for 2d.; Boxes of 13 Packets 1/3.
Order through your Wholesale Drug House.
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FINEST QUALITY

MILK POWDER. CASEIN.

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PURE ORANGE WINE

(VINUM AURANTII B.P.)

Prepared in strict accordance with the Formula of the British Pharmacopœia.

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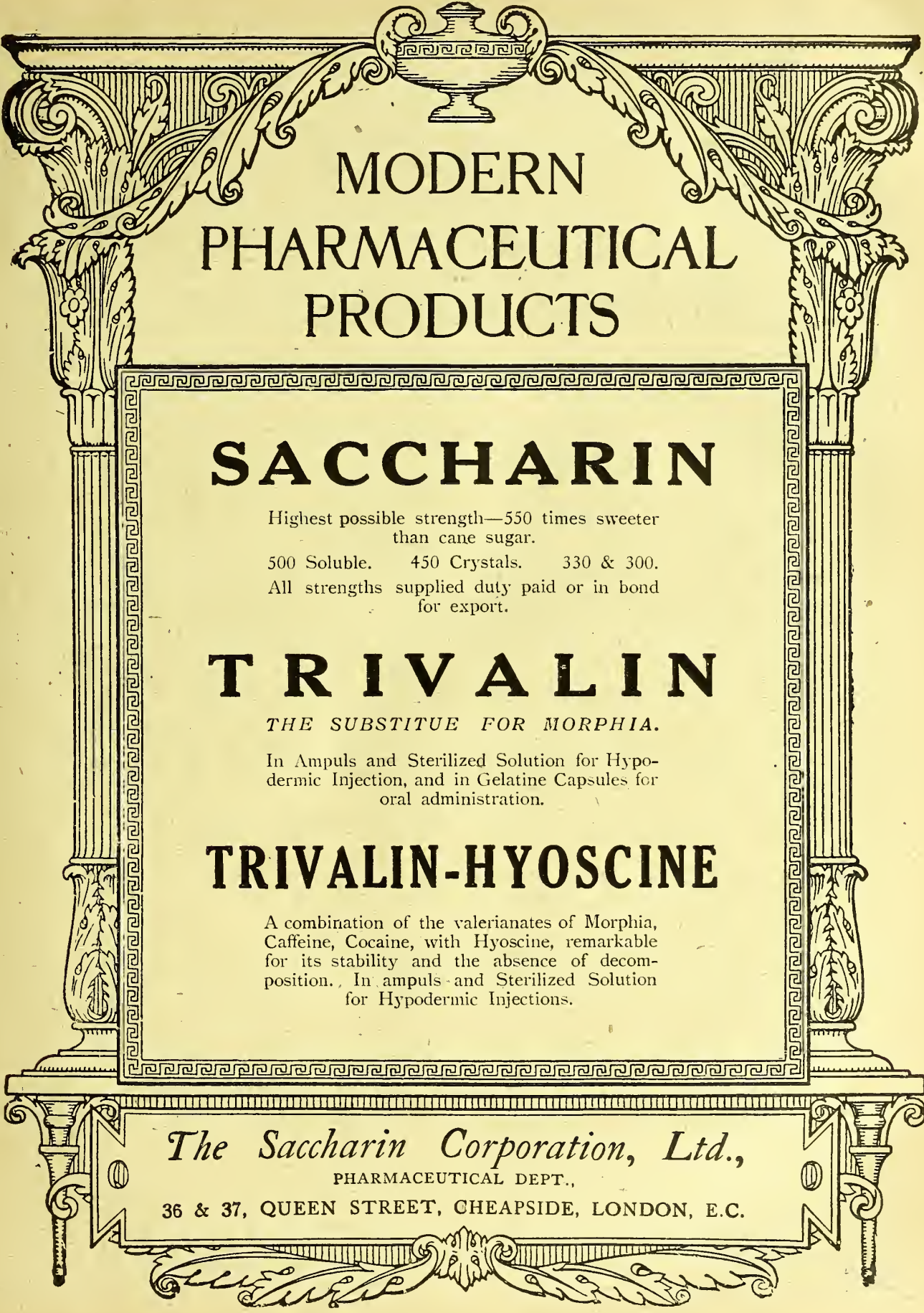
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Sells readily ALL the time.

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SACCHARIN

Highest possible strength—550 times sweeter
than cane sugar.

500 Soluble. 450 Crystals. 330 & 300.

All strengths supplied duty paid or in bond
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THE SUBSTITUTE FOR MORPHIA.

In Ampuls and Sterilized Solution for Hypo-
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oral administration.

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A combination of the valerianates of Morphia,
Caffeine, Cocaine, with Hyoscine, remarkable
for its stability and the absence of decom-
position. In ampuls and Sterilized Solution
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**GENUINE AMERICAN
PEPPERMINT OIL**

*"Columbia" Natural
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A powerful antiseptic and deodorant.

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The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. "PETAL DUST" has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

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Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

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CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

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4^{1d.} **IN CARTONS.** **6^{d.}**

NO ADVANCE IN PRICE.

OSYL is the finest value ever offered in dentifrices. British Made and British Owned—it is already being prescribed by numerous dentists.

OSYL is a good seller, and brings early repeats. Chemists tell us it is one of the best new lines they have ever handled.

OSYL is bound to please your customers, and will please you, because we guarantee to reserve always a margin of 125 % profit for you.

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Please send me, carriage paid, with Window Display matter,

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for which I enclose cash value 20/-, and undertake to make special window or counter display in return for above special terms.

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QUALITY WORKMANSHIP
AT THE MOST MODERATE
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SEND A TRIAL ORDER.

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Pendleton, :. Manchester

Our Motto = = "Præstantia et Celeritas."

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WE HAVE A LARGE VARIETY OF CARTONS IN STOCK, ONE OF WHICH WE ILLUSTRATE ABOVE. THE WORKMANSHIP IS GOOD THROUGHOUT, AND WE CAN RECOMMEND THEM TO ALL WHO WISH TO SEE THEIR GOODS WELL PACKED.

WE SHALL BE GLAD TO SEND SAMPLES OF ANY OF THE FOLLOWING CARTONS FOR

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BOX MAKERS TO THE
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CHESTERFIELD & LONDON.

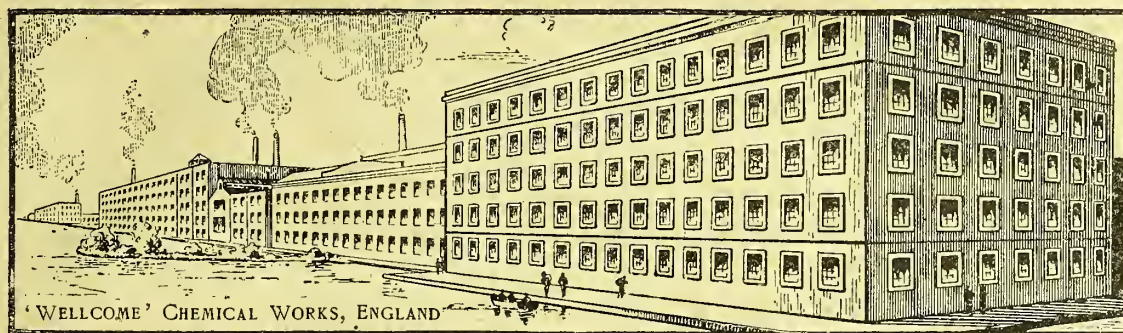
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**FOUNTAIN
PENS**
and all Pens
the Best.

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Proprietors:

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'WELLCOME' BRAND Concentrated Tinctures

Because they can be diluted as required and therefore do not lock up capital in alcohol.

Diluted they correspond to freshly-prepared B.P. Tinctures.

They effect a saving on the cost of your specialities when alcohol can be omitted.

They economise storage space.

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'WELLCOME' BRAND Liquid Extracts

They are prepared from exceptionally fine materials.

They are standardised, in every possible instance, to represent definite strengths of the active principles of the respective drugs:

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They are B.P. or Better

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London Exhibition Room: 54, Wigmore Street, W.

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(Reg. No. 291417)

KILLS

BUGS, FLEAS, MOTHS, BEETLES, etc.

NO DISAPPOINTMENT WHEN 'SECTO' IS USED.

3d. Tins, 2/3 per doz.

6d. Tins, 4/- per doz.

1/- Tins, 8/- per doz.

(Subject to our usual profit-sharing discount.)

SHOWCARDS, WINDOW BILLS, etc., Supplied.

CUPAL Ltd., BLACKBURN.

'Panopepton'

'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

For an adult the usual portion should be a dessertspoonful to a tablespoonful several times a day and at bedtime.

Supplied in 6-oz. and 12-oz. bottles at **27/-** and **46/-** per doz.

Glycerinum Pepsini Concentrated (Fairchild)

50% stronger than the product of the 1914 B.P.

To make 24 oz. GLYCERINUM PEPSINI B.P.

R. Glycerinum Pepsini, Concentrated (Fairchild)	16 oz.
Acid Hydrochloric	40 minim.
Glycerin	4 oz. 6 drms.
Distilled water, sufficient to produce	24 oz.

Supplied in 4 oz. and 16 oz. (fluid measure) at **24/-** and **72/-** per doz., and in Winchester Quarts at **27/-** each.

These prices are subject to B. W. & Co.'s Terms.

GLYCERINUM PEPSINI CONCENTRATED (FAIRCHILD) may be obtained from all Wholesalers.

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A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
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The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Подписная цена на еженедельный журнал с приложением Годового Дневника—12 шиллингов 6 пенсов на год с пересылкой.

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Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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Coming Events.

Sunday, January 14.

Pharmacists' Volunteer Corps. Duke of York's, Chelsea, S.W., at 9.30 A.M. Staff parade, 11 A.M. Sanitation lecture by Q.M. Sergt. Luke, 12 noon. First-aid lecture by Dr. Durno for Section 5 and recruits. On Wednesday and Thursday, at 2.45 P.M., classes in First-aid will be held at 17 Bloomsbury Square, W.C.

Tuesday, January 16.

Glasgow Pharmacy Golf Club. At 7 P.M., smoking-concert and presentation of prizes. Tickets, 1s. 6d. each, from Mr. J. Halliwell, 312 Cathcart Road.

Wednesday, January 17.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. J. W. Deakin on "The Pharmaceutical Outlook."

Thursday, January 18.

Glasgow and West of Scotland Chemists' Association, 165 Hill Street, Charing Cross, Glasgow, at 8.30 P.M. Mr. Jas. Crombie, "Reflections and Confessions of an Examiner."

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Colonel C. T. Heycock, M.A., F.R.S., on "Alloys of Copper and Tin, Aluminium and Gold."

Western Pharmacists' Association, Restaurant Frascatti, Oxford Street, London, W., at 2.30 P.M. Mr. G. A. Mallinson on "Insurance Dispensing-fees."

West Ham Pharmacists' Association, Earlham Hall, Forest Gate, E., at 3 P.M. Mr. E. T. Neathercoat on "Pharmaceutical Politics."

European War News.

Import and Export Notices.

AUSTRIA-HUNGARY.—The prohibition of importation of articles that can be dispensed with which originate from hostile countries has been extended, according to a decree of December 19, 1916, so that the importation is also prohibited if these articles come from Allied or neutral countries. The importation of the following articles into Austria-Hungary is consequently entirely prohibited: Star anise, cloves, nutmegs, mace, saffron, vanilla, figs, lemons, almonds, plums, distilled spirituous liquors, wine from grapes, sparkling wines, cocoa-powder, chocolate, chocolate-substitutes, and chocolate articles of any kind, sugar in any form, amber, aromatic waters, essential oils, synthetic perfumes, cotton in any form, vinegar, fixed oils and fats, perfumed, alcoholic, and aromatic essences, perfumery articles, cosmetics.

Glass Bottles, Tubing and Rod.

The Minister of Munitions has made an Order requiring all persons engaged in the manufacture, purchase, sale, or other dealings in chemical and medical glass or glass tubing and rod to comply with the following regulations:

1. No person shall manufacture any chemical or medical glass or glass tubing or rod unless the purpose for which the glass is required has been approved. Such approval must be evidenced by one or other of the following, which must be quoted by the ordering firm, together with the purpose for which the glass is required:

(a) Reference to and number of an Admiralty, War Office, or Ministry of Munitions contract for which the glass is necessary; or

(b) A certificate authorising the supply issued on behalf of the Minister of Munitions by the Director of Optical and Glassware Munitions.

2. Manufacturers are required to render to the Director of Optical and Glassware Munitions at regular intervals full and accurate returns of their manufacture and output of chemical and medical glass and glass tubing and rod in accordance with the directions from time to time given by the said Director.

3. No person shall buy, sell, or deal in any chemical or medical glass or glass tubing or rod situated or to be manufactured outside the United Kingdom unless a certificate authorising such purchase, sale, or dealing has been issued on behalf of the Minister of Munitions by the Director of Optical and Glassware Munitions.

4. For the purpose of this Order chemical and medical glass shall include resistance, chemical, and bacteriological glassware, carbos, thermometers, glass for miners' safety flame lamps, glass for x-ray apparatus, hospital glassware, and glass vessels (graduated or otherwise) manufactured for the purpose of containing reagents, drugs, medicines, pharmaceutical or biological substances or preparations; and glass tubing and rod shall include all glass tubing and glass rod made by the process of drawing.

5. All applications in reference to the above Order should be made to the Director of Optical and Glassware Munitions, Ministry of Munitions of War, 117 Piccadilly, London, W.

Certificates will be granted to dealers to order reasonable quantities of chemical and medical glass and glass tubing and rod for the purpose of stock and (or) export, provided that such orders are not considered by the Minister of Munitions as likely to interfere with the execution of orders required for war purposes. No further authorisation to dispose of such stocks will be required provided that, in the case of articles the export of which is prohibited, the usual permit to export be obtained.

Personalia.

CADET ALEXANDER MILLAR, chemist and druggist, who was wounded at Loos while a private in the London Scottish, has been gazetted sub-lieutenant to a Gordons battalion.

LANCE-CORPORAL HOWARD MCLEISH, who prior to enlisting in the Black Watch was employed as an assistant with Mr. J. H. Thomson, dispensing chemist, Lochee, has been awarded the Military Medal.

CAPTAIN W. R. INNES, only son of Mr. David Innes, dispensing chemist, Stalybridge, whose death was reported in the *C. & D.*, December 2, p. 38, has been specially mentioned in Sir Douglas Haig's despatch in the list of officers.

SECOND-LIEUTENANT J. RODNEY JOHNSTON, son of Mr. W. Johnston, Ph.C., Secretary of the Chemists' Defence Association, has been awarded the Military Cross for personal bravery and good leadership in the attack on the Ancre Front on November 3, 1916.

CORPORAL THOS. F. LITTLE, R.A.M.C., has been awarded the Distinguished Conduct Medal. He is a son of Mr. William Lytle, registered druggist, North Queen Street, Belfast. Corporal Lytle was in South Africa, and on the outbreak of the present war returned to Belfast and enlisted in the Ulster Division.

SECOND-LIEUTENANT ROLAND A. MARSHALL, R.F.A., only son of Mr. John D. Marshall, managing director of John Bell & Croyden, Ltd., Wigmore Street, London, W., is in hospital in London undergoing treatment for the recovery of his speech. This followed severe injuries received in action, and it is hoped that success will soon attend the medical treatment.

LEADING SEAMAN P. G. CRACKNELL, son of the Rev. T. S. Cracknell, Vicar of Sutton St. James, who joined the Royal Naval Division, has been promoted to commissioned rank. He served his apprenticeship with Donington & Co., chemists, Spalding. His brother, who has been training at Calgary, is on his way to this country with a Canadian contingent. Young Cracknell was in action at Gallipoli, and was wounded shortly before it was evacuated by the Allied troops.

REFERENCE was made in the *C. & D.*, December 16, 1916, p. 33, to the fact that Second-Lieutenant Martin Daniels had been wounded at the Front. The injury which he received turned out more serious than had been anticipated, and it has been necessary to amputate Mr. Daniels' left leg. He writes us a cheerful letter from the hospital, in which he states that he will probably be sent to England shortly. He adds:

"It is only when one gets inside a Red Cross hospital that one realises that a wonderful institution the British Red Cross Society is. The medical and surgical staff, the sisters and nurses, are tireless in their endeavours to give each patient the very best treatment. Indeed, in this beautiful old French chateau, containing about 180 beds for sick and wounded officers, everyone is cheerful and happy, although many of us realise with regret that our fighting days are over."

Military Tribunals' Decisions.

AMERSHAM.—Three months' exemption was granted to Mr. A. M. Kennard, dispensing chemist.

CUMNOCK.—The application by a manufacturing chemist for further exemption for his foreman was dismissed, the man having been passed for general service.

GILLINGHAM.—Three months' exemption was granted to Mr. R. S. Hardie, chemist and druggist, assistant with Mr. C. E. Beveridge, dispensing chemist.

GREAT MISSENDEN.—Three months' exemption was granted to Mr. G. L. Coombes, dispensing chemist.

HEREFORD.—The conditional exemption granted to Mr. S. A. Shackleton, dispensing chemist, has been withdrawn.

HITCHIN.—Three months' exemption was granted to O. E. P. Radnor, assistant with Perks & Llewellyn.

LONDON.—On January 8, a firm of metal-merchants appealed at the House of Commons Tribunal on behalf of the manager of their ore-trading department, who a representative stated is engaged in the work of bringing to this country materials which are used for the making of sulphuric acid, and his absence from the firm would cut off supplies. The materials are obtained from Spain, Italy, and Southern Europe, and before the war the trade was entirely in the hands of Germany. The appeal was dismissed, as the Chairman said the Tribunal could not regard the man as indispensable.

NEWCASTLE.—An appeal for the chief clerk of a firm of wholesale chemists was dismissed, but he is not to be called up for a fortnight.

SHEFFIELD.—The appeal of J. E. Reyston, chemists' assistant, which was adjourned for medical examination, has been disallowed.

SOUTHWARK.—P. H. Galloway, Ltd., manufacturing chemists, Walworth Road, applied for the further exemption of a laboratory foreman, who was claimed to be in a certified occupation. Two months' final exemption was granted.

WEST BYFLEET.—Three months exemption was granted to P. F. Johnson, chemist's assistant.

Miscellaneous.

ALLIES' GOLD RESERVES.—The gold held by banks of the Allied countries, according to the last returns to hand, were as follows: Bank of England, 52,840,000*l.*; Bank of France, 203,037,000*l.*; Bank of Russia, 146,684,000*l.*; Bank of Italy, 43,036,000*l.*; or a total of 445,597,000*l.* The reserve held by Germany has been stated to be 125,954,000*l.*, but Austria-Hungary has not published any figures since the outbreak of war.

ENEMY FIRMS WOUND UP.—Carl Zeiss (London), Ltd., 13-14 Great Castle Street, Oxford Circus, London, W., opticians and makers of field glasses. *Controller:* Louis H. Weatherley, 14 George Street, Mansion House, E.C.—The Institute W. Schimmelpfeng, 137 Cheapside, London, E.C., and elsewhere in the United Kingdom, inquiry agency. *Controller:* Rowland Evans Smith, 55 New Broad Street, E.C.

Wholesale Distribution of Sugar.

THE FOLLOWING MEMORANDUM has been issued by the Royal Commission on the Sugar-supply, Scotland House, S.W., in regard to the distribution by wholesalers from January 1, 1917:

1. It has been decided to continue, until further notice, the present scheme of wholesale distribution based on the distribution of 1915, and that for this purpose the first day of January shall be considered to be the commencement of a fresh period, no adjustment being made in this period as the result of any irregularity in the preceding period.

2. In all calculations the basis is the quantity supplied during the whole of 1915 and not during any particular portion of that year.

3. British refiners will continue to issue sugar only to their 1915 customers. The quantities to be issued will be proportioned to those of 1915, but the proportion will vary from time to time in accordance with the general proportion which all available supplies bear to the total quantity used or distributed in 1915.

4. The Sugar Commission will continue to distribute its imported sugar (and such quantities of British refined sugar as it may have at its disposal) to its 1915 buyers according to the index number of each. This will give each buyer as his share of available supplies the amount proportional to his total use or distribution in 1915 of all sugar other than British refined.

5. *British West Indian Sugar.*—The sale of this and other sugar imported under licence will continue to be regulated by the West India Brokers' Committee, which will report all sales to the Sugar Commission. These will be taken into account when determining the quantities of Royal Commission sugar which should be allotted to the buyers. There will thus be no "free" sugar in 1917.

6. All wholesale dealers are instructed to distribute to their customers on the same principle; that is to say, to let each of their customers of the year 1915 have his equivalent proportion of the supplies of all descriptions, and from all sources, which they have at their disposal.

7. Experience has shown during the past six months that for a wholesale dealer who has some thousands of customers, a distribution on the basis of a fixed percentage of each customer's purchases in 1915 would be the most satisfactory method of procedure.

It will be readily understood that it is quite impossible under present circumstances to determine in advance the exact percentage of 1915 supplies which will be available, and the Commission accordingly recommends to all wholesale dealers who experience a difficulty in carrying out the instructions contained in this memorandum:

(a) Forthwith to agree with their 1915 customers as to the quantity delivered to each in 1915, which is the quantity upon which the distribution for 1917 should be based. This basic quantity should be the total of all descriptions obtained from all sources.

(b) To distribute during January on a fixed low basis of, say, 50 per cent.

(c) To distribute during February on the fixed percentage of all supplies actually received during January, and so on from month to month.

This method will tend to obviate the difficulties arising from the adoption of too high a basis at the commencement, and the consequent inconvenience caused by subsequent adjustments.

8. The Commission must impress upon all those engaged in carrying out the distribution the extreme importance of adhering rigidly to the rules laid down. Haphazard distribution by the wholesalers leads to innumerable complications and hardships for others. Any departure from these rules will render the offending wholesaler liable to be excluded from obtaining further supplies.

Wills.

SIR WILLIAM RAMSAY, K.C.B., F.R.S., Beecherof, Hazlemere, High Wycombe, who died on July 23, has left personal estate of the value of 17,896*l.*

MR. JAMES JOSEPH HICKS, 34 Highbury Grove, London, N., and of 8, 9, and 10 Hatton Garden, E.C., scientific-instrument maker, who died on October 25, left property of the value of 36,986*l.* 5*s.* 8*d.*, the net personality being 22,226*l.* 18*s.* 10*d.* Among the legacies are: 100*l.* to his manager, Barnett, John Oakley, and 25*l.* to Alfred Higgins, if still in his employ.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on the December Analytical Exercise.

THE powder distributed to students on December 12 consisted of equal parts by weight of lead chloride, calcium phosphate, and magnesium sulphate. The calculated composition of such a mixture is:

Pb	...	...	...	...	...	24.8
Ca	...	...	...	...	...	12.9
Mg	...	...	...	...	...	3.3
Cl	...	...	...	...	...	8.5
PO ₄	...	...	...	...	...	20.4
SO ₄	...	...	...	...	...	13.0
H ₂ O	...	...	...	...	...	17.1

100.0

The powder also contained as impurities a distinct trace of an ammonium compound and a recognisable trace of iron.

Samples of the powder were distributed to thirty-five students, and eighteen reports were submitted for examination. The writers all succeeded in detecting the sulphuric-acid radical, while the failures to detect the other main constituents were: (a) Metallic radicals: Lead, 5; calcium, 8; magnesium, 5. (b) Acid radicals: Hydrochloric, 1; phosphoric, 5. Five students failed to report the copious evolution of water when the powder was heated in a dry test-tube. The evolution of ammonia when it was heated with a strong base was only recognised in four instances.

While a few very satisfactory reports on this analysis were sent in, the results have been, on the whole, rather disappointing, considering that the exercise, although involving a phosphate separation, was quite a simple example of its kind. Errors in respect to the failure to detect constituents actually present and also to the supposed detection of constituents which were not present, were mostly due to causes which have often been mentioned in this column. Some of these causes are specially referred to in the replies to individual students, and we commend these replies to the notice of all our correspondents. Others are dealt with in the following short paragraphs.

Hydrochloric-acid solutions to be precipitated by hydrogen sulphide must be cold and well diluted with water in order that anything like complete precipitation of lead as sulphide may be attained. Such solutions may have been treated, while hot, with hydrogen sulphide to effect reduction of the arsenic-acid radical, if present, but if so they must be cooled again and fully saturated with the gas to avoid failure to precipitate all the lead (also bismuth and cadmium). Many complications in this analysis were due to lead, which had not been precipitated at the proper place, making its appearance at a later stage.

Phosphate mixtures require not only special methods but also thoughtful treatment. Omission to apply the former led to aluminium being reported occasionally as a constituent of the mixture, while failure in respect to the latter caused several students to overlook the necessity for examining the filtrate from the original phosphate precipitate. Such a filtrate may contain zinc- and barium-group metals, magnesium, and alkali metals, if it is free from the phosphoric-acid radical; while if it contains this radical, only zinc-group and alkali metals need be sought for. In no case should it be left unexamined.

Testing for ammonium compounds by simply boiling with a solution of sodium hydroxide is sufficient if the proportion present is not small. Traces require more delicate treatment by grinding the substance to be tested with soda-lime, moistening on a watchglass with one or two drops only of concentrated solution of sodium hydroxide, and covering the mixture with another watchglass to which a small fragment of moistened red litmus-paper has been attached.

Chlorine is not liberated from chlorides by heating with concentrated sulphuric acid in absence of oxidising agents. Several students erroneously reported the evolution of chlorine in this test. Hydrochloric acid was the gas evolved.

Testing the original powder for potassium by the flame test and blue glass was unsatisfactory and misleading, as it often is. Flame colorations attributed to potassium, which was absent, were really due to the lead and the

calcium compounds. The flame test for potassium should only be applied at the proper stage—that is, after the removal of metals belonging to the other groups.

The ferrous-sulphate and sulphuric-acid test for nitrates, applied to a considerable quantity of the powder, failed in our experiments to afford any positive indication.

The powder was partially soluble, not insoluble, in water.

PRIZES.

The First Prize for the best analysis has been awarded to T. C. EGAN, c/o T. Clarkson, 14 Tower Street, West Hartlepool.

The Second Prize has been awarded to F. WILDMAN, 53 Bute Avenue, Nottingham.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSIS.

T. C. Egan (1st Prize) ...	94	Twinkle Star	72
F. Wildman (2nd Prize) ...	93	Nelson	67
A. F. C.	89	Nil Desperandum	67
C. O. P.	78	Primus	62
Denique	77	Samaden	61
Worm-Killer	76	F. J. D.	60
Onyx	75	Hexamine	49
Somme	74	Pot. Brom.	47
Jayjay	73	Dinah	28

TO CORRESPONDENTS.

F. Wildman.—The solution of bromine in chloroform is brown, and that of iodine is violet.

A. F. C.—The sulphide precipitate in the copper group should have been tested for all the metals of the group. Your report that silver nitrate did not give a precipitate of silver chloride until nitric acid was added seems to require some explanation.

C. O. P.—The behaviour of an arsenate and of a phosphate towards ammonium molybdate "on warming" and "on boiling" respectively is not sufficiently different to justify the sharp distinction which you attempt to draw. You seem to have omitted to test for magnesium in the insoluble phosphate precipitate.

Denique.—Too concentrated hydrochloric acid and, perhaps, too high a temperature prevented hydrogen sulphide from producing a precipitate of lead sulphide in your solution.

Worm-Killer.—An acetate was not present. The odour taken to be that of ethyl acetate must have been simply that of ethyl alcohol.

Onyx.—Ferric chloride gave a precipitate of ferric phosphate when added to the neutralised solution to be tested for acid radicals when this solution was properly prepared.

Somme.—You make an uncommon mistake in concluding that barium-group metals need not be looked for in a filtrate which is free from the phosphoric-acid radical, this being the very condition under which they may be present in the filtrate from the iron group.

Jayjay.—The precipitate which you supposed to be calcium oxalate was either calcium phosphate or (if you omitted to neutralise the sodium-carbonate extract) a mixture of the latter with calcium carbonate.

Twinkle Star.—In reporting the results of adding reagents as tests for acid radicals you should state clearly how the solutions were prepared to which the reagents were added. This you have almost uniformly omitted to do.

Nelson.—Confirmatory tests would have prevented your concluding that bismuth was present and lead absent. Read the reply immediately preceding.

Nil Desperandum.—You state that as phosphate was present, all the metals, if present, of the iron, zinc, and barium groups and magnesium were precipitated in the ammonia precipitate; this, however, is never true of the zinc group, and it is only true of the others if there is sufficient phosphate to go round—a most important point. Your evidence for mercury and a carbonate is most circumstantial, but, unfortunately, quite incorrect.

Primus.—You failed to report any examination of the filtrate from the precipitate produced by ammonium chloride and excess of ammonia. This filtrate might contain zinc- and barium-group metals, magnesium, and alkali metals if free from the phosphoric-acid radical.

Samaden.—You will find the causes of several of your failures stated in the general remarks and in some of the preceding replies.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Scarcity of Sugar.

The Southwark Board of Guardians have received a letter from The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N., stating that their position was the worst it had ever been as regarded the supply of sugar. They had not only to decline all orders for simple syrup whatsoever, but were not even able to fulfil orders for medicinal syrups and other pharmaceutical preparations containing sugar. The institutions of the Guardians would always receive first consideration at their hands, but unless and until they were able to secure further supplies of the necessary sugar, it would be a physical impossibility for them to supply the Board with syrup. The claims of the medicine-trade had been brought before the notice of the authorities, and they were hopeful that, under the new Food Controller, matters might shortly be placed upon a more equitable footing.

Birmingham

Mr. Wilfrid Hill, prospective Liberal candidate for East Worcestershire, gave an address on "The Dawn of a New Age," at the Soho Hill Men's Movement, on Sunday, January 8.

The movement in the matter of the Pharmacists' Volunteer unit in Birmingham inaugurated by Mr. Gretton Watson and Mr. Raino, appears to be a happy one, for it blends the medical profession (Lieutenant-Colonel J. T. J. Morrison) and the civic (Lieutenant-Colonel Robertson, M.O.H.) with pharmacy (Messrs. W. Hill, Corfield, Buckingham and Radford) and science (Mr. O. T. Elliott, Ph.C. F.I.C.).

Mr. H. H. Marshall, 128 Alcester Road, Moseley, Hon. Secretary of the Minimum Prices Committee of the Birmingham Pharmaceutical Association, has issued the new list for January. Alterations have been made in the prices of chamomile-flowers, essence of peppermint, Solazzi liquorice, linsced, liquorice and chlorodyne lozenges, santal oil, gall-and-opium ointment, saltpetre, spirit of sal volatile, methylated spirit, sweet spirit of nitre, sublimed sulphur, compound tincture of benzoin, strong tincture of ginger, tincture of myrrh, ammoniated tincture of quinine, and turpentine. Alterations are also made in the lists of proprietary articles, packed goods, and surgical dressings.

Liverpool.

Evidently there is a division of opinion in the local retail trade concerning the virtues of the metric system, at any rate while it is applied to pharmacy alone and lacks legislation, together with the adoption of a decimal coinage. Dr. Symes recalls the time when metric apparatus could not be exhibited during the visits of the weights and measures inspectors, so strong was the official and insular prejudice against anything non-British.

One of the speakers on the vote of thanks to Mr. Lescher at the meeting of the Liverpool Chemists' Association last week expressed his own wish that the wholesalers would fraternise more generally with the retailers. "Let them call on us," he said, "and give us a 'flipper'—i.e. a shake of the hand. The use of the word "flipper," a localism, rather puzzled some of the audience. Mr. William P. Evans (the President) and Mr. Lescher called in company on the speaker, but the former suggested that if all pharmacists would attend the meetings of the Liverpool Chemists' Association the hand-shaking would be promoted in the best fashion.

Mr. Richard Stopforth, whose death is announced in this issue (p. 39), had been in the habit of fixing his journeys in Ireland to coincide with those of a friend given to innocent practical joking. This friend (alas! now no more) on one occasion paid a barrel-organ grinder to keep a single tune going over and over again for two hours in front of an hotel in which many commercial travellers and other guests had gathered for the evening. Mr. Stopforth, who guessed that his friend was behind the scenes, relished the comments which were current among the puzzled and tantalised people kept in vain expectancy of a fresh tune. When the joker took up floriculture Mr. Stopforth paid him back in his own coin by gravely presenting him with, as a natural phenomenon, a rose which he had dyed blue.

Sheffield.

Messrs. Smith & Hill, of Wetheredge, are not renewing their contract with the Insurance Committee for 1917, the district having but few insured persons.

By permission of the Military Representative, the Pharmaceutical Committee has placed Mr. E. Dwyer, Millhouses, at Mr. Paddon's branch at Attercliffe Common, and Mr. F. R. Clark with Mr. Appleton, Walkley. Both had been passed by the Tribunal for the Army.

Mr. J. M. T. Reynolds, acting district manager at Sheffield for Boots, Ltd., in the place of Mr. W. Beaulah, who is making slow progress from his serious illness, has joined the Chemical Section of the Royal Engineers. Mr. G. R. Airey, of the Broomhill branch, is taking Mr. Beaulah's duties in the meantime.

The difficulty which has arisen through representations being made to the Insurance Committee by the Panel Committee of the inadequate service by the early-closing section of the chemists' shops has been settled after several conferences of the three Committees. The Insurance Committee laid down 8 p.m. as a general hour for closing, which was objected to by the city chemists as not necessary. Finally a rota has been arranged, and Boots, Ltd., are to keep open several of their shops until 8 p.m. in order to provide an adequate service.

As uncertainty prevailed in the minds of most chemists who employed assistants of military age, holding certificates of conditional exemption, as to what is required of them by the new Regulations, an inquiry was made at the Chief Recruiting Office, and it was ascertained that pharmacists are required to fill and send in during the first week in each month on D.R. Form 17 (procurable at the Post Office) to the Chief Recruiting Officer, Corn Exchange, a copy of the list exhibited in their shops. The object is to avoid missing removals and young men who reach military age.

Miscellaneous.

FIRE.—A slight fire occurred on the premises of Mr. G. T. Williams, chemist and druggist, 126 Cowbridge Road, Cardiff, on January 3.

BRIGHT LIGHTS.—At Hereford on January 1, L. Lortnam, manager of Boots, Ltd., Hereford, was fined 10s., and 2s. 6d. costs, for displaying an unshaded light on December 19.

TREASURY NOTES.—A new issue of 17. currency notes is to be made later in the month. The new notes are about the same size as those at present in circulation, but they are printed in colours, and on the back is a representation of the Houses of Parliament printed in brown ink.

DEATH IN THE SHOP.—Mr. I. W. Gossett, a retired tea-planter, died of heart disease on January 6, in the pharmacy of Mr. J. Wynne Tighe, dispensing chemist High Street, Exeter. Deceased had asked for some tooth-powder, and shortly afterwards fell down dead.

HELPING THE WOUNDED.—The Portsmouth Pharmacists' Association has placed a new billiard-table and accessories in one of the recreation rooms at the 5th Southern General Hospital, Portsmouth, and without any formal ceremony play was commenced on January 9. Lieut.-Colonel Childe, Officer Commanding, was present, as well as Messrs. Pestlethwaite, Sparrow, and Atterbury, President, Vice-President, and Secretary respectively of the Pharmacists' Association. The appreciation of the gift was evident by cheers which were accorded the donors.

POISONINGS.—A death from arsenobenzol, a French make of salvarsan, was inquired into at the Southwark Coroner's Court this week. Deceased was found, on *post-mortem* examination, to have a large tumour on the brain and extensive softening of that organ. "Death by misadventure" was the verdict returned.—A Newcastle woman named Douglas died from an overdose of morphine which had been used in excess of the doctor's directions. It appears that morphine suppositories, each containing 1 gr. of morphine, were ordered to be administered at intervals of four hours, but the patient, being in great pain, used them more frequently, with fatal results.

LOST BANK HOLIDAYS.—Mr. Albert Larking, Secretary of the Early-closing Association, has received the following reply from the Home Secretary in regard to the query put as to whether an employer is bound to give the two days' holiday as an equivalent to these lost to employees who were not in his employ last Whitsun and August:

"In reply to your letter of the 29th ultimo, I am directed by the Secretary of State to forward to you the enclosed copy of the Royal Proclamation of the 13th ultimo in regard to the giving of holidays, and to say that it directs that every employee (other than those in the employments expressly excepted) who has been deprived of a holiday on either or both of the postponed Bank Holidays and has not yet received an equivalent holiday or holidays, must be given an equivalent holiday or holidays by his employer before March 1."

Irish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Pharmaceutical Society of Ireland.

The following is the result of the recent Preliminary examination: Passed.—Edith Brown, Londonderry; Elizabeth St. John, Ranelagh, co. Dublin; Doris Evelyn Humphrey, Kingstown; Richard Hall, Belfast; John McGregor, Armagh; John Irwin, Lisburn; Margaret M. A. Foley, Killarney; Leonard W. S. Clarke, Bailieborough; Ernest J. A. Dougan, Londonderry; John Sullivan, Mitchelstown; John F. Liston, Rathkeale; Norah Macaulay, Lurgan; Michael J. Timoney, Dublin; and Patrick J. Collins, Waterford. Fifteen candidates were rejected.

Brevities.

At Belfast City Council last week, a poison-licence was granted to Mr. W. J. McClements, seedsman, 100 High Street.

Mr. J. J. Fitzsimons, Ph.C., Lough-na-Cush, Carbery, has been appointed to the Commission of the Peace for co. Kildare.

At Belfast Guardians' meeting last week the Chairman (Mr. John Wilson) referred to the death of Mr. D. W. Elliott, Ph.C., for many years a member of the Board. Mr. Elliott, he said, had been a useful and active member, and took a deep interest in all matters pertaining to the welfare of the institution. Other members spoke, and a resolution of condolence was passed, the members standing.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Edinburgh.

Dr. Robert McLaren, formerly in business in Bread Street as a chemist and druggist, is in the R.A.M.C. abroad.

At the meeting of the Council of the Edinburgh Boy Scouts on January 9, a letter was read from Mr. Thos. Stephenson, Ph.C., from the Retary Club, thanking the Scouts for their co-operation in controlling the 9,000 children who have been entertained by the Club.

Mr. J. G. Nicholson, Ph.C., Hanover Street, Edinburgh, possesses an interesting war relic in the shape of a German meat-ticket. The quantity of meat allowed in the week ended June 1, 1916, for which the card is dated, is 6 oz. Mr. Nicholson also possesses a paper mark and an iron ten-pfennig piece.

Forfarshire.

Brechin Town Council has approved of a by-law fixing a half-holiday for the chemists in town, the petition in favour having been presented by nearly all the chemists. Objections to the Order were submitted on behalf of Mr. W. Crockart, High Street, these being mainly that it was against the public interest, and not desired by the inhabitants. Mr. W. M. Hendry expressed the opinion that it was a very great hardship to compel a man to close against his wish, and urged in the interest of insured persons that the Order should not be enforced. Mr. Dundas, who said he was an insured person and was satisfied that the chemists would not allow them to suffer on account of the Order, moved approval, and, Bailie Addison seconding, this was agreed to.

Glasgow.

Glasgow police raided a Chinese opium-den on July 10, seized 3 cwt. of cake opium, and arrested six Chinamen.

A. McLean & Co., chemists and druggists, 168 Langlands Road, Govan, Glasgow, have granted a trust deed in favour of Wilson, Stirling & Co., C.A., 93 West George Street, Glasgow.

The day-class instituted at the Technical College, Glasgow, under Dr. Ellis, for study of bacteriology, with special reference to pharmacy, opened on January 9. There was a fair turn-out of chemists, and there are still a few vacancies to fill, but any intending candidates must make immediate application. The opening lecture by Dr. Ellis was introductory, and the practical work which followed gave the students an opportunity again to become familiar with the high-power microscope. Dr. Ellis intends carrying out the course in the making of pure cultures, staining, and the diagnosis of important species; and so far as applicable the bent will be given to trade requirements and public health. The lecture was received with much appreciation.

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. A. V. BAXTER, of the Erasmic Co., Ltd., Warrington, is leaving for India, and will not be back until the end of April.

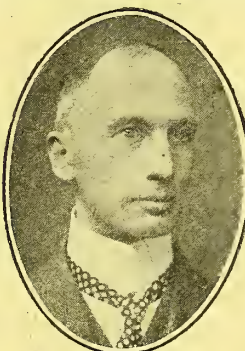
MR. FRED LAW, Secretary of the North-East Lancashire Chemists' Association, has passed the examination of the Incorporated Accountants' and Auditors' Society.

MR. A. WRIGHTON, dispensing chemist, Ilfracombe, slipped on the frozen road last week and was rendered unconscious by the shock. He was a former assistant with Southall Bros. & Barclay, Ltd., and grows fruit, keeps bees, and is an adept on the flute.

MR. A. E. LEA (Vince & Co.), chemists and druggists, Cheapside, Lancaster, was successful in winning the Christmas shooting competition of the Lancaster Rifle Club, scoring ninety-nine at each distance, and with a handicap of six bringing his score up to 204.

DR. HENRY H. RUSBY, of New York, has resigned his position as pharmacognosist in the Bureau of Chemistry of the United States Department of Agriculture. In announcing the resignation, the "Oil, Paint, and Drug Reporter" says it was forced upon him as the only alternative, because he could not conscientiously assume the responsibility for the purity and quality of all the drugs imported through the New York Custom-house when but one-fifth of the time necessary for their examination was allowed him.

As mentioned in the *C. & D.* last week (p. 38), Southall Bros. & Barclay, Ltd., Birmingham, have added Mr. William E. Hipkiss and Mr. Ernest W. Mann to the board of directors. This step is necessitated by the growth



MR. W. E. HIPKISS.



MR. E. W. MANN.

of the business, which includes several subsidiary businesses absorbed by the company—viz., W. G. Taylor, Bromsgrove (lint and dressings), George Scriven (druggists' sundries), the Spring Water Bleaching Co., Uppermill, and others; as well as agencies in India, South Africa, Canada, Australia, New Zealand, Ceylon, China, etc. Another development is the erection of two laboratories at Saltley, near Birmingham, for (1) research-work and the manufacture of fine chemicals hitherto mainly supplied by Germany, and the production on a larger scale of recrystallised and purified chemicals, and (2) the manufacture on a large scale of galenicals, glycerophosphates, iodides, chloroform, etc. Mr. Hipkiss has been associated with the business for over twenty-eight years. He entered the firm as assistant-accountant in 1888, and became chief accountant in 1894. In 1898, on the formation of the company, he was appointed chief accountant and assistant-secretary, and in 1908 became secretary. Mr. E. W. Mann became an articled pupil in the analytical laboratory in 1892, and spent practically the whole of his apprenticeship under the tutelage of the late John Barclay, B.Sc. (Lond.). On the death of Mr. Barclay Mr. Mann took entire control of the manufacturing and analytical laboratories. He was largely instrumental in the launching of Vitafer, and between 1911 and 1913 made visits to Germany and Switzerland with the object of ensuring that the best method of producing casein was being employed. Mr. Mann passed the Minor in 1899 and the Major in 1903, and also obtained the B.Sc. (Lond.) with Honours. He has since taken up the Fellowship of the Institute of Chemistry. He assisted Mr. John Barclay in the production of the fifth and sixth editions of Southall's "Materia Medica," subsequent editions being by Mr. Mann. He was President of the Birmingham Pharmacists' Association for two years.

Legal Reports.

Arsenic in Baking-powder.—At Stratford on January 6, Henry Presland and Frank Cooke, Walthamstow, corn-merchants, were fined 15s. each for selling baking-powder containing arsenic. The arsenic was traced to the calcium acid phosphate, which was an ingredient of the baking-powder, and both defendants denied any knowledge of the fact that arsenic was present.

Sweet Spirit of Nitre.—At the Drogheda Petty Sessions, F. W. Brittain, Ltd., West Street, Drogheda, was summoned, under the Sale of Food and Drugs Act, for selling sweet spirit of nitre deficient in nitrous ether—one volume yielded 2.8 of nitric-oxide gas instead of "not less than 4 volumes." Mr. McKeever, for defendant, referred to the great difficulty in keeping this drug up to the standard. In an unopened bottle it deteriorated. Mr. P. D. Larkin, Ph.C., gave evidence to this effect, and added that the only way in which the drug can be stored without deterioration is in amber-coloured bottles. Mr. Tallan, for the prosecution, said he thought the case was one for a nominal penalty only, as there was no suggestion of fraud. The Magistrates fined defendant 1s., with 11. costs.

The Sale of Cocaine.—At Portadown Petty Sessions on January 8, John Edward Green, described as an "unregistered dentist," was charged, under the Defence of the Realm Act, with trafficking in cocaine. Mr. Joseph Canavan, druggist, said that on October 27 he supplied the defendant with a solution containing less than 1 per cent. of cocaine. The solution was made up from a formula of Mr. Green's, and he had supplied him regularly with this for the past five years. In consequence of what the head constable told him he had refused to supply any more. Witness was under the impression that he was entitled to supply an unregistered dentist with cocaine by a recent Order of the Home Secretary. Mr. V. Wilson, for the defendant, produced a communication from the Home Office and a copy of the permit issued by the Secretary of State under the Defence of the Realm Regulations, which authorised any unregistered dentist to use a solution containing not more than 1 per cent. of cocaine as an anæsthetic in connection with dental work, and for no other purpose. Mr. S. H. Monroe (for the police): If you bring yourself within that contention I am out of court. Mr. Wilson said there was no suggestion and no proof that it had been used for any other purpose. Mr. Monroe: It seems to be known in Portadown that it was being used for a hypodermic injection. Mr. Wilson: There is no allegation that Mr. Green has done anything of the kind. Mr. Canavan, recalled, said he supplied this solution as a dental anæsthetic, and he had never known it to be used for anything else. The Chairman said the Magistrates considered it a very technical offence, and fined the defendant 1s., and 20s. costs.

Debt assignments.—At the Downham (Norfolk) County Court on January 4, Judge Mulligan gave judgment in the action of Jennings v. Luddington, in which the plaintiff sought to recover 3l. 10s., the price of goods sold and delivered by Bastol, Ltd., to Luddington, and he sued as the assignee of the book-debts of the company. In the judgment the action was referred to as a test-case, and stated in plain English the issue is: Does the price given for the debts of Bastol, Ltd., represent money or profits to be paid or applied, in whole or in part, directly or indirectly, through the instrumentality of the company, to or for the benefit of German enemies? His Honour then reviewed the evidence of the sale of bastol as a cattle-feed, and the circumstances of the invention of bastol—a feeding-material prepared from sawdust. The question of company "nationality" was also gone into, the present view being concisely stated as "it is the man behind the gun, and not the gun, that is endowed with life and independence and will." Continuing, his Honour said: Following out the principles laid down by Cairns and Jessel and Lindley and Halsbury, I find that Bastol, Ltd., was a compendious name or legal abstraction for a quasi-partnership. Zimmermann said the company was practically English, but there were twenty quasi-partners, of whom he said about five were Germans resident in Germany, and there were four directors, of whom three were naturalised Germans. Could this company, after war was declared, make a valid sale and assignment of its book-debts? Clearly not. Part of the price or consideration for such sale and assignment would *prima facie* be payable through the instrumentality of the company—i.e., through the compendious name under which the quasi-partners worked—for the benefit of enemy Germans. Such part would be tainted with illegality. Illegality in part of the consideration would render the sale and assignment void *in toto*. Hence the

plaintiff cannot succeed on any assignment made by Bastol, Ltd., after the declaration of war. But from the evidence given it leaked out that the plaintiff has another and a better ground of claim. Before August 1914 there were English mortgagees of these very book-debts. They brought an action in the Chancery Division of the High Court to enforce and realise their security. A receiver was appointed, and under and by virtue of an equitable execution, and upon evidence that Ferdinand August Zimmermann had been naturalised, the book-debts in question were, in October 1914, with the approval of the Court, sold and assigned to him, and the price was applied in part satisfaction of the English mortgage debt. Under that sale and assignment Zimmermann obtained a good title—a court title—so that he was able to make, and did make, a valid sale and assignment to Jennings, although the recitals in that assignment are false and misleading. There will be judgment for Jennings for 3l. 10s.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

LANDER & Co., LTD. (P.C.).—Capital 500l. Objects: To carry on the business of chemical and drug manufacturers, merchants and brokers, etc., and to enter into an agreement with G. D. Lander, D.Sc. The first directors are G. D. Lander, W. E. Martin, and H. C. Lander. 14. O., 10 Beauchamp Street, Holborn, London, E.C.

GENATOSAN, LTD. (P.C.).—Capital 100l. Objects: To carry on the business of manufacturers of and dealers in all kinds of foods and medicines and combinations thereof, chemists, druggists, drysalts, manufacturers of mineral waters, cordials, liqueurs, soups, broths, and restoratives, etc. The subscribers are G. Dickson and E. J. Alldis. Solicitors: Linklater & Co., 2 Bond Court, Walbrook, London, E.C.

SOUTH IRISH MILK Co., LTD. (P.C.).—Capital 5,000l. Objects: To carry on the business of manufacturers of and dealers in dried or evaporated milk, albumen, dried whey, casein, and other products derivable from milk or other sources, manufacturers of butter, condensed-milk, infants' food, etc. The subscribers are J. R. Hills and W. Hart. Solicitors: Neve, Beck & Kirby, 21 Lime Street, London, E.C.

NORTHERN DYES AND CHEMICALS Co. (MANCHESTER), LTD. (P.C.).—Capital 500l. Objects: To take over the business of the Northern Dyes and Chemicals Co., and to carry on business as importers, exporters, and merchants of chemical and industrial materials, dyo-manufacturers, druggists, drysalts, etc., and to enter into an agreement with C. H. Travis and J. P. Wildman. The subscribers are J. P. Wildman and C. H. Travis. Solicitor, C. Crowther, 23 Abingdon Street, London, S.W.

CHINA SOAP AND CANDLE Co., LTD. (P.C.).—Capital 600,000l. Objects: To carry on the business of scap, candle, and night-light makers, seed-crushers, margarine-manufacturers and dealers, manufacturers, refiners, preparers, treaters and hardeners of and dealers in oil-seeds, oil, fat, tallow, glycerin, cattle food, and oleaginous, fatty, or saponaceous substances, and all kinds of unguents and ingredients of soap, candles, night-lights, margarine and similar substances, and to adopt an agreement with Joseph Crosfield & Sons, Ltd., Wm. Gossage & Sons, Ltd., Price's Patent Candle Co., Ltd., and Price's (China), Ltd. The signatories (each with one share) are: Holman Kingdon, Hill Crest, Frodsham, Ches., director of Joseph Crosfield & Sons, Ltd.; Giles Hunt, Dingle Bank, Lymm, Ches., solicitor, director of Wm. Gossage & Sons, Ltd.; Chas. Radburn, Belmont Works, Battersea S.W., general manager of Price's Patent Candle Co., Ltd., and of Price's (China), Ltd. Joseph Crosfield & Sons, Ltd. and Wm. Gossage & Sons, Ltd. (or, if only one of them is a member of the company, then that company alone), may appoint half the directors, and Price's Patent Candle Co., Ltd., and Price's (China), Ltd. (or, if only one of them is a member of the company, then that company alone), may appoint the other half. Solicitors: Bristows, Cooke & Carpmal, 1 Copthall Avenue, London, E.C.

Deed of Arrangement.

Green, William Baker, Somersham, Chemist and Druggist.—Notice was filed on January 3 of the appointment of P. S. Booth, Bixteth Street, Liverpool, as new trustee in place of B. Gifford, resigned (see C. & D., December 16, 1916, p. 38).

Births.

MILTON.—At 265 High Street, Exeter, on December 25, the wife of Arthur C. Milton, dispensing chemist, of a son.

NIXON.—At 57 Bankfield Road, West Derby, Liverpool, on January 7, the wife of Harold Nixon (Ayrton, Saunders & Co., Ltd.), of a son.

Marriages.

ABERNETHY-SHERLOCK.—At the Belmont Presbyterian Church, Belfast, on January 1, by the Rev. John MacDermott, M.A., D.D., assisted by the Rev. John McLay, B.D., Charles Abernethy, registered druggist, Albertbridge Road and Knock, to Rebecca, elder daughter of Mr. James Sherlock, Sydenham.

BRINSON-MATHISON.—At St. Stephen's Church, Prenton, on January 6, by the Rev. J. E. Woodward, M.A., Vicar of St. Paul's, Birkenhead, assisted by the Rev. Percy A. Miller, M.A., Vicar of the parish, Captain Harold Neilson Brinson, D.S.O., 17th Battalion King's (Liverpool) Regiment, elder son of Mr. George Brinson, representative of Evans Sons Lescher & Webb, Ltd., to Vera Mabel, younger daughter of Mr. W. H. Mathison, of Prenton.

Deaths.

ANDREW.—At the Brae, Old Cumnock, suddenly, on January 2, Mr. John Andrew, chemist and druggist, and ex-Provost of Cumnock. In addition to his pharmacy business he built up an extensive connection in aerated waters. He took an active part in local public affairs. Entering the Council in 1892, he was elected Junior Bailie five years later, and in due time filled the Provost's chair for a term of three years. He was re-elected a member of the Town Council at a subsequent date. He was a Justice of the Peace for the county, a member of the Quarter Sessions, and of the Licensing Committee.

CRAVEN.—At Westholme, Anlaby Road, Hull, on December 27, Mr. Thomas Craven, chemist and druggist, aged seventy-five. Mr. Craven was a native of Scarborough, and served his apprenticeship at Selby with Mr. Robson.

GIBSON.—At West Cliff Hotel, Westcliff-on-Sea, on January 4, Sarah Cooper Gibson, widow of Adam Gibson, Ph.C., F.C.S., of Pinkerton, Gibson & Co., wholesale druggists, Edinburgh.

GOLDFINCH.—At Worthing, on December 11, Mr. George Goldfinch, Ph.C., of 4 Eriswell Road, Worthing, aged sixty-three.

MACKAY.—At Inveralmond, Cramond Bridge, Midlothian, on December 31, Mr. George Duncan Mackay, Ph.C., managing director of John Mackay & Co., Ltd., Canning Street, Edinburgh, aged sixty-four. Mr. Mackay had not been in good health, and at Christmas-time was seized with a severe illness which developed into pneumonia, from which he died, leaving a widow, two sons, and a daughter. He was apprenticed to his father at the retail pharmacy, 119 George Street, Edinburgh, and was associated with him in all his work, so that when the manufacturing and wholesale part of the business was removed to Canning Street he went there with it along with his brother William and Mr. Adam Kennedy, while the old retail pharmacy was continued under the management of Mr. Peter Boa, who subsequently purchased it. The manufacturing and wholesale business, of which Mr. George Mackay had been the head since his father's death in 1881, has always been of a distinct and individualistic character. When his father died it was Mr. George Mackay's intention to continue as far as he could the assistance which his father had rendered to the Pharmaceutical Society from the time of his association with Jacob Bell, but owing to certain changes in the conduct of the Society's business in Scotland it was only possible for Mr. Mackay to assist as a member of the Council of the Branch for a short time, though he always remained a faithful friend to the Society.

PARKIN.—At Borrowash, Derbyshire, on January 2, Mr. George Anthony Parkin, chemist and druggist, aged fifty-eight.

PORTLOCK.—At Bradley Street, Wotton-under-Edge, Glos., on December 19, Mr. Eusebius George Portlock, chemist and druggist, aged eighty-four.

RAINEY.—At a nursing home, on January 7, Mr. Thomas J. Rainey, Ph.C., Strand, Londonderry. He was a native of Newtownards, and served his apprenticeship with the late John McClements, druggist. Going to Derry, he completed his apprenticeship with Dr. Taaffe, Magazine Street, and became a pharmaceutical chemist in 1893. He had only been ill for a short time.

ROBINSON.—The late Mr. Charles Portland Robinson, whose death was referred to last week (p. 42), was chairman of Robinson & Sons, Ltd., surgical-dressing and cardboard-box manufacturers, Chesterfield. Mr. Robinson was one of the leading Congregationalists of the town. He was the last survivor of five men who left Soresby Street Church forty-three years ago with the object of establishing the Brampton Congregational Church, which has become one of the most flourishing in the district. His marriage was the first to take place in the church. For some time he acted as superintendent of the Sunday School, and for over twenty years he held the position of Church Secretary, an office which he relinquished about four years ago. Until his health failed him he took an active part in political life, and at the time of his death was a Vice-President of the Chesterfield Division Liberal Association. The funeral, on January 2, was attended by a large number of friends and employees, the works of the company being closed in the afternoon. The Corporation was represented by the Mayor and many of the Aldermen and Councillors. Those present from Robinson & Sons, Ltd., included Messrs. J. G. Frampton and J. D. Hubbuck (representing London office), C. Chapman (traveller), R. Hubbuck, R. C. Price, W. Bale, H. J. Wood, T. Wright, H. W. Lee, W. A. Purseglove, and H. Hubbuck (representing the staff of Wheatbridge Mills), W. Parsons, A. E. Webster, F. H. Roleston, and E. Smith (representing the staff of Holme Brook Works), H. Astwood, J. Simpson, J. Robinson, J. Reynolds, R. Pashley, J. Gillbrand, R. Butterworth, H. Gregory, Mrs. Clough, Mrs. Fletcher, Mrs. Thorpe, Miss J. Jarvis, Miss S. Richardson, Miss F. Woodward, Miss Hannah Parsons, and Miss A. Longden (old employees).

STOPFORTH.—At 13 Rutland Avenue, Sefton Park, Liverpool, on January 8, Mr. Richard Stopforth, aged sixty-six. Deceased, who was head of the firm of Rowand & Co., wholesale druggists, Vauxhall Road, Liverpool, was a native of Barton, near Ormskirk. He was apprenticed in the warehouses of Evans Sons Lescher & Webb, Ltd., where he remained until he entered into partnership with the late Mr. Robert Rowand—then carrying on business in Dale Street and Fontenoy Street, Liverpool—who died in 1897. He leaves four sons and two daughters.

Died on Service.

BARBER.—Sergeant Robert C. Barber, R.A.M.C., chemist and druggist, who, previous to the war, was manager to Mr. F. H. Rushton, Birmingham, was killed in action on December 13, at the age of twenty-seven.

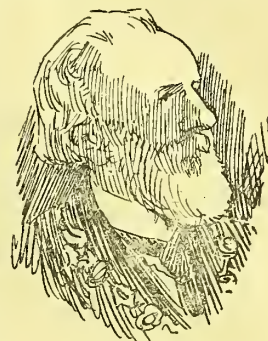
BARRON.—On December 23, Private J. Oliver Barron, brother of Mr. Thos. Barron, dispensing chemist, Albany Street, Edinburgh.

CLARK.—Lieutenant Eric Clark, of the Royal Flying Corps, who has been killed at the Front, aged twenty, was the eldest son of Councillor G. Foster Clark (proprietor of the "Eiffel Tower" brand lemonade), ex-Mayor of Maidstone. Mr. Clark was educated at Mill Hill School, and before entering the Flying Corps served with the Buffs in France.

DUFF.—Private William Duff, Machine Gun Section, died in hospital on January 1 of wounds received in action on December 4. He was nineteen years of age, and the youngest brother of Mr. James Duff, chemist and druggist, 31 Strathmartine Road, Dundee.

RENNIE.—Lance-Corporal Rennie, Argyll and Sutherland Highlanders, has been killed in action. Before enlisting in October 1915, he was an apprentice with Boots, Ltd., Arbroath.

WEBBER.—Private Alan Webber died on December 22 from wounds received in action, aged nineteen. He was with Grimble & Kent, chemists, High Street, Boston, when he enlisted.



MR. C. P. ROBINSON.

Associations' Winter Session.

Blackpool.—A meeting of the Blackpool and Fylde Pharmacists' Association was held at Blackpool on January 5. In the absence of the President (Mr. J. Laurie), Mr. Johnson presided. A letter was read from the Proprietary Articles Trade Association regarding the supply of infants' foods by Mothers' Aid Societies and similar institutions. The sale of glycerin was discussed, and it was resolved to send a postcard to every member of the Association, asking him to agree to stop selling glycerin or any preparation containing glycerin, other than B.P. or B.P.C. preparations and when contained in doctors' prescriptions. The Chairman of the Pharmaceutical Committee reported on the action taken by that Committee re military service, but he had nothing definite to report. Mr. Boothroyd opened a discussion on the sale of opium as governed by the recent regulations, regarding which some of the members showed uncertainty.

Chester.—The monthly meeting of the Chester and District Pharmacists' Association was held at the Blossoms Hotel on January 4. Mr. David Dickson (President) in the chair. The Association confirmed the decision arrived at since the last meeting of supplying glycerin only to the prescription of a medical man. An interesting question arose as to whether the prescription could be presented more than once. It was generally agreed that the obligation of the pharmacist did not extend to his demanding a new prescription on each occasion the article was sold. The Cocaine and Opium Regulations came under discussion owing to the complaint made by several members that prescriptions had been received improperly filled in. It was resolved that the Association should direct the attention of local doctors to the stringency of the Regulations, and invite their co-operation in duly observing them.

Liverpool.—At the meeting of the Liverpool Chemists' Association, held on January 3 (*C. & D.*, January 6, p. 51), Mr. W. P. Evans (the President) was in the chair. He stated that the complaints regarding the sale of glycerin which were made at the last meeting had had the desired effect. Four new members were elected—Miss S. Taylor, 87 Bold Street; Mr. W. Harper, 56 Hanover Street; Mr. John Oliver, Aigburth Road; Mr. Stuart, 252 Park Road. Mr. T. E. Lescher (London) read his paper which was reported in our last issue. Mr. Marsden, in moving a vote of thanks, said in Liverpool only one German drug had been lacking during the war. He complained of the insufficient remuneration offered by the Government to analysts. He counselled (1) more collaboration between men with ideas and manufacturers, (2) increased study of foreign languages. He regretted the cutting-off of the supplies of fine sugar. Mr. John H. Robinson seconded the vote of thanks. He had been delighted to hear the lecture and to learn that the membership of the Association now exceeded 200. He rejoiced to see any wholesaler come down from his perch. (Laughter.) The wholesalers and retailers generally should meet together. The wholesalers would never regret mingling with or calling upon the retailers. (Applause.) Mr. Harold Wyatt thanked the wholesalers for their efforts to restore prices to normal level and for the supply of organic salts of silver, formerly produced chiefly in Germany or America. Great Britain could well be optimistic as to the home production of articles previously obtained from abroad. The universities had been too academic. England had lacked the educational systems of the Scots and the Dutch, the latter being accomplished linguists. He agreed that the metric system should be advanced, and favoured legislation to enact it. In his experience the wholesalers were attentive to complaints by letter. The "ambassadors of commerce" are seldom pharmacists, and therefore do not always appreciate the point of view of the pharmacist. The wholesalers and the retailers had met the present situation with reciprocal patience. Dr. Symes agreed that the wholesalers and retailers should work together. He did not oppose the metric system, but the old system would die hard. He hoped soon to see the full supply of uncoloured sugar resumed. In reply to a cordial vote, Mr. Lescher deprecated the use of any substitute for sugar.

London (S.W.).—The monthly meeting of the South-West London Pharmacists' Association was held on January 9. Mr. W. H. Goy (President) in the chair. There was a fair attendance, but a far smaller one than the items of agenda warranted. The proceedings of the London Pharmaceutical Committee and the London County Associations Executive were summarised and commented on, after which the advisability of restricting sales of scheduled poisons was agreed to. The *pièce de résistance* in the shape of "In-

creased remuneration for N.H.I. dispensing" elicited bitter remarks as to existing arrangements. The *fat* having gone forth that criticism was to be constructive rather than obstructive, a definite crystallising of opinion was obtained which should tend to yield better results. It was further the opinion of the meeting that organisation—real, true combination—is the burning need of the moment.

London (N.).—A meeting of the North London Pharmacists' Association was held on January 4. Mr. C. W. Matthews (President) in the chair. Mr. T. H. W. Idris, one of the Honorary Presidents, was present, and in response to a request he recalled some interesting episodes of his connection with North London. A series of five papers followed. Mr. A. H. Jenkin led off with one on *The Future of our Qualifications*, which contained many new points and thoughts for discussion, crystallising round the idea of making pharmacy a closer corporation. Mr. H. Skinner gave the second, on *Education as a Business Asset*. He pointed out the mental qualities necessary for business success, and showed how these are fostered by pharmaceutical studies, providing they are taken as a systematic course, and not as cram. The third was by Mr. H. Wolff, on *Buying and Selling*. He fastened on a phrase used in the previous paper, "the will to live," and built around it some cogent and stimulating remarks on these two important sides of the pharmaceutical calling. The fourth was by Mr. C. Breese, on *The Surplus-stock List—a Business Proposition*. He gave some very interesting figures which proved helpful to members in realising its importance. He also held out the hope of further extension to the whole of the county. The last paper was by Mr. J. Hearle, on *How to Use the Minimum-price List*. He gave some very practical hints on the method of using it, pointing out that it would give increased confidence to each member and tend to prevent cutting. A general discussion ensued.

Cape Province Pharmaceutical Society.

A COUNCIL-MEETING of the Pharmaceutical Society of the Cape Province was held at S.A. Mutual Buildings, Darling Street, on Thursday, November 16. There were present: Mr. J. Sloan (President), Messrs. J. Dell and Petrie (Vice-Presidents), Dr. Froembling, Messrs. Edmeades (Hon. Treasurer), Ferguson (Hon. Secretary), G. R. Cleghorn, Asher, Sowden, and J. Austin Thomas. The minutes of the previous meeting were read and adopted. The President referred to the loss which Messrs. Coaker, of Ladybrand, and Mager, of Queenstown, had sustained, both having lost a son in the war, and he proposed that a vote of condolence be passed. This was carried in silence, all members upstanding. A letter was read from Mr. Edmeades resigning his position as Hon. Treasurer of the Society. The President referred to the faithful manner in which Mr. Edmeades had carried out the onerous duties of Treasurer, and he was sure that they all regretted that he was resigning, but their regrets were tempered by the fact that Mr. Edmeades was proceeding to Flanders to take a hand "in the game." He proposed a hearty vote of thanks to Mr. Edmeades. Mr. Petrie seconded the proposition in very kindly terms. Mr. G. R. Cleghorn likewise bore testimony to Mr. Edmeades' value as Hon. Treasurer. He said that when Mr. Edmeades took over the position the books were in a very bad way, but that he soon evolved order out of chaos. The resolution was carried unanimously, and Mr. Edmeades thanked all present for the very kindly remarks that had been made. He hoped to be back again at the Cape as soon as the war was finished. Mr. Petrie proposed that Mr. Asher be appointed Hon. Treasurer. This was seconded by Mr. Cleghorn, and Mr. Asher, having signified his willingness to take over the duties, was unanimously elected. With regard to the Cape Formulary it was decided to issue one, and the Committee specially appointed for the purpose was instructed to proceed with the work.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

182/50. "Renshaw" spray.	183/39. Epatol.
182/50. "Gripwell" feeding-bottle.	183/39. Red Mostelle grape-juice.
181/55. "Ningpo" varnish.	

Observations and Reflections.

By Xrayser II.

Chemical-industry in this Country

is pushing ahead. I am well aware of all the facts mentioned by "Pharmakon" as well as the work done by British Dyes, Ltd., by Levinstein, Ltd., and others, of the fine new laboratory erected by Southall Bros. & Barclay, Ltd., and the magnificent building being put up in Nottingham by Boots, Ltd., and also the excellent start made by the last-named company in the production of synthetics. I have already given expression to my admiration of this class of work, but in my observation two weeks ago I was dealing with an entirely different issue—namely, the *diarrhœa verborum* that afflicts our corporate bodies and that must go on, apparently, till sheer exhaustion brings it to an end, and with the exhaustion an end also of any beneficent work that might possibly have been accomplished. Perhaps, however, I am expecting too much. The failure of these corporate efforts is symptomatic, as I think I have said before, of our national character.

The Endowment of Research

was, as Mr. Clodd reminds us in his interesting book "Memories," rather decried than otherwise by the robust scientists of the Victorian era. They had a fear of creating "soft jobs," the tendency of which is not to stimulate but to relax effort, and it was wittily said by one of them that the endowment of research must not degenerate into a research for endowment. Our new zeal for scientific study is admirable, and science is at least as much in need of endowment as any other learning—indeed, it is in more need just now, for only in this way can we catch up our German rivals; but it is to be hoped that our new schemes will exact real work in return for financial help. It is true that we cannot measure the value of research by its immediate results, and that the greatest genius is often the least productive of immediate results, and therefore the most in need of being protected from the "chill penury" which, as Gray says, is apt to repress its "noble rage." But where the application of science to industry is concerned, results are directly aimed at, and the terms of endowment should be "in a concatenation accordingly."

"Script"

has within the last few years come to be very generally used as an abbreviation of "prescription." There are obvious objections to the practice. "Script" is already established as an independent word with several different meanings, and if we are too lazy to write our word in full we still ought not to add to existing sources of confusion by introducing another; we might at least use a sign of abbreviation and write "script," as is done in the theatrical profession. Wootton, by the way, has a rather confusing reference to the origin of the prescription as we know it. He admits that Greek and Latin physicians wrote prescriptions, but adds that "our prescriptions are the direct descendants" of the "bills" written in coffee-houses for the apothecaries who were in the habit of conferring with the physicians there. He uses this as an argument against Paris's erroneous idea that the abbreviation *R* is the astrological symbol for Jupiter. It is an unfortunate argument, because there were undoubtedly prescriptions before there were apothecaries, and they usually began with "Recipe," either in full or abbreviated. As a matter of fact, the oldest recorded occurrence of "prescription" in English is older than that for "bill" in this sense.

The Use of Latin for Prescriptions

has another advantage in addition to those admitted by Dr. Fantus. A Latin prescription can be written in about half the space and time required for an English one; compare "Tr. Gent. Co." with "Compound Tincture of Gentian," or "t.d.s."

with "to be taken three times a day." Roman numerals may be mistaken for each other, but so may 3, 5, and 8. The fact that unusual directions are even now written in English is no reason why Latin should not be preferred. The coining of Latin names is not the business of the prescriber, and new English ones might be even more "embarrassing"; there is great force, too, in the objection that English names for drugs are indefinite and variable. The great advantage of Latin, however, is the fact that it ensures secrecy, the importance of which can hardly be overrated. In short, Dr. Fantus makes out a very poor case for the use of English in preference. The historical reason has weight, of course, but Latin would not have been retained so long were it not for its utility; it has been abandoned almost everywhere else, in spite of equally strong historical reasons for its retention.

Between Mr. Body and "Soloman"

(whose identity is unknown to me) I do not wish to intervene, but as Mr. Body's advocacy of compulsion traverses my previously expressed objection to it, I beg to remind him what the objection is. It applies equally to Local Associations and to the Society itself. We object to force as a substitute for reason. There are reasons enough for joining the Society, but there is none worthy of the name for forcing anybody to join it. Mr. Woolcock showed true statesmanship when he said the other week that the strength of the Society lies in the fact that membership is voluntary, or words to that effect. Mr. Body would say, with the French Revolutionists, "Be my brother, or I will kill you." He rails bitterly against "the mean belittling selfishness" of outsiders, and in a fine confusion of metaphors declares that we must narrow the meshes of the net so that nobody can escape from the fold. No wonder he fails to win recruits, and has to fall back on compulsion; but this is not the way in which societies can be made to thrive. Mr. Breese is equally unreasonable, but more naïve. He does not wish to see the Society's compulsory powers extended except in accordance with the desire of its members to exercise compulsion on other people. A Daniel come to judgment!

Mr. Britling,

who is but a stalking-horse for Mr. H. G. Wells, saw it through—saw, that is, not the actual end of the war, but the end it is in the order of Providence being made to serve. That end is the triumph neither of the Central nor of the Entente Powers, but of Humanity itself; and it is to be brought about by an immense pity, a universal sympathy, the sense of the essential brotherhood of man with man, revealed in the mutual suffering of all the warring peoples. This discovery was made by Mr. Britling when, having lost his own best-loved son at the Front, he had to write a letter of condolence to the German parents of his son's former tutor, who had died of his wounds in a Russian prison. He found it impossible to hate, or even to blame extravagantly, these good people, suffering equally with himself in what they honestly thought a good cause. Their rulers were to blame, and they were to blame for having acquiesced in their rule, but the whole business suddenly seemed to Mr. Britling as rather a stupid, foolish muddle than anything else. Life, he reflected, had "a wrangling birth," and he saw the war much as a wise nurse sees the wild passions of children breaking out in quarrel and strife. Before this, when a relative in Yorkshire had been killed in a Zeppelin raid, he had been bitterly angry at such murder—such senseless devilry, as at first it seemed. But reflection showed him that it was the act, not of devils, but of men—of poor, blind, ineffective people like himself; and the curse on his lips was checked by the memory of the cry, "Father, forgive them, for they know not what they do." And now that his own supreme sorrow had quickened his sympathies, he saw, or thought he saw, the world learning wisdom by suffering, and struggling towards a mutual understanding that will eventually make war impossible. This is the moral of Mr. Wells's latest, and perhaps greatest, book; it is not consistent with everything in the book or with all the facts of the case, but it is truer than pessimism and better than hatred.

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Editorial Articles.

Three Years' Trade.

It is not many years since, in reviewing a year's British trade, we used as a heading a previously unreachd figure—1,000,000,000. A thousand million pounds sterling was the value of the goods imported and exported by Great Britain and Ireland in the year preceding. The Board of Trade issued last Saturday the figures for 1916 and the two preceding years, and they are 50 per cent. higher. We give the 1916 totals in each section:

	£
IMPORTS valued at	949,152,679
EXPORTS	506,546,212
RE-EXPORTS	17,608,502
	1,553,307,393

The thousand millions of exports and imports that we mentioned was the largest national figure ever reached in history. The 1916 figure of 1,553 millions is also something that the world has not experienced before; in fact, it was almost unthinkable a few years ago that this country's import and export business could reach such figures and the country remain solvent. Obviously there is a balance against us of 345 million pounds' worth of goods that we have bought more than we have sold. This is the first thing to frighten the timid, but exactly the same thing has been happening every day since 1840, and we have been growing financially stronger all the time. It was in the year 1840 that our exports were valued at 116 million pounds and our imports at 67 millions, which was about 50 millions of difference—not in our favour. In 1850 our imports were 95 millions and our exports 82 millions. The figures went up steadily; let us give them by decades:

	IMPORTS.	EXPORTS.
	£	£
1860	210,530,873	164,521,351
1870	303,257,493	244,080,577
1880	411,229,565	286,414,460
1890	420,919,997	328,252,118
1900	523,075,163	354,373,754
1910	678,257,021	534,145,817

Think of the differences (supposed to be against us) all these years! There was not less than 1,600 millions in one decade, and the rate has been growing since, but it has all been met by British capital; commerce, industry, and credit, *everything being paid for*. We are not poorer, but richer, especially abroad. When we consider what has been going on in the British Empire during the past hundred years or so, and how our industries, trade, and finance have grown with our people at home and

abroad, we know why such demands as those of 1916 (a mere tithe of the war demands) are met as normally and quickly. The world knows this, and that if there is any goods we want that can be supplied we shall get them.

Turning now to the three-years' trade that the Board of Trade Returns for December 1916 cover, we confine ourselves to several of the most striking matters reflected by the figures. In the first month of 1914 our imports were valued at 68 millions and our exports at 57 millions. The values diminished month by month during the half-year, the most notable fall being in re-exports in June, when 8½ millions was touched, and exports of our own manufactures were 39½ millions. Then came the war on August 4, but trade by sea was not hard hit, although it was by September, when the imports were valued at 42½ millions, and exports 28½ millions. Imports immediately recovered, but exports kept down all the year, and the values of home goods exported did not get into the 30 millions figure again until March 1915. It has been going up steadily ever since, and touched 47 millions in May 1916. The total exports in 1914 were valued at 526 millions, of which about three-fourths were imported during the first seven months of the year; the diminished rate persisted in 1915, and the 50-million figure that had become common in peace-times was not reached in any month, the total for the year being 484 millions. In 1916 the total was 604 millions, thus making a monthly average of over 50 millions, with 50½ to 58 in six of the months. Even allowing something for greater values, these figures show that we have recovered and maintained our commercial, industrial, and mercantile pursuits in spite of the war. These last five words mean many things.

Now let us look at the goods handled. Everybody is aware that practically everything is dearer, but almost everybody expected, when war began (especially our enemies), that supplies to this country would be stopped. We know better now, and we put down the import values of the four classes of goods handled during the past three years:

	IMPORTS.		
	1914	1915	1916
	£	£	£
Food, drink, and tobacco ...	296,969,207	380,874,561	419,569,686
Raw materials, etc. ...	236,531,383	286,569,551	336,986,042
Manufactures ...	100,490,216	181,450,218	189,273,376
Miscellaneous ...	2,644,307	2,699,020	3,353,575

EXPORTS (Home goods only).

Food, drink, and tobacco ...	26,948,542	25,081,669	29,495,652
Raw materials ...	56,713,082	52,354,040	64,342,651
Manufactures ...	338,633,564	292,926,785	393,670,106
Miscellaneous ...	8,426,169	14,505,954	19,037,803

The significance of these figures is immense. We are a nation of manufacturers now at war; the greater proportion of our manufactures has been used at home. Now we have to produce munitions that our enemies had been concentrating on for years before the war and since. Yet the export figures show that business is as usual almost.

We must deal briefly with the chemical figures. They cover chemicals, drugs, dyes, and colours, and values for the three years are appended:

	1914	1915	1916
	£	£	£
IMPORTS ...	12,064,430	19,329,020	28,663,449
EXPORTS—			
Home goods ...	19,508,061	22,068,563	27,676,841
Re-exported ...	1,497,938	3,131,572	5,402,443

These figures are something more than values. They cover myriads of difficulties that have been put in the way of consumers getting supplies. It has been the business of British trade to get the goods and deliver them, which is something accomplished, something done. This nobody knows better than our enemies. We submit that these bald, unembellished figures of our Board of Trade Returns demonstrate that, although at war, we as a nation are maintaining business obligations in an honest and honourable way, and not like the scrap of paper that Germany regarded as all that was between her and the peace of the world.

Medicine Stamp-tax in France.

THE Act authorising various increases in existing taxes and providing for new taxation towards war expenses appeared in the French "Journal Officiel" on December 31. Some of these increases—the substitution of three-halfpenny for penny postage, for instance—came into force on January 1, and some apprehension appears to have been felt by pharmacists lest the new tax on pharmaceutical specialities should be applied in the same abrupt fashion. In fact, representations were made at the Ministry of Finances to call attention to these apprehensions as to the practical impossibility of obtaining the necessary Government stamps in time. The visit might have been saved if the Act had been carefully read beforehand. It is distinctly stated that proprietary remedies will be taxed "from a date which will be fixed by a Decree countersigned by the Minister of Finances." This system of passing an Act to establish a general right, principle, or authorisation, and of elaborating a decree to specify the exact details of its application, is familiar to every student of French procedure, and often enables the phraseology of the original Act to be singularly simple and intelligible. The new tax, like the Medicine-stamp Act in this country, takes as a basis the retail price of the medicament. Goods sold at less than fivepence require a halfpenny stamp; from 50c. to 10f. the tax is a penny for each franc or portion of a franc (roughly 10 per cent. of the retail price); above 5f. it is still 10 per cent., but every fraction of 5f. counts as a five-franc piece. Proprietary medicines are defined as "products to which the manufacturer or vendor applies a special name, or for which he claims either (1) priority of invention, (2) exclusive proprietorship, or (3) superiority by advertisement, etc., and of which he does not publish the formula." This last phrase covers a "secret remedy," and the Act may be criticised by some purists as tacitly, if not definitely, authorising the sale of "secret remedies," the ethical legal status of which has up to the present always been in France an open question. The Act specially and categorically exempts from taxation "products prepared by pharmacists for direct delivery to the public (without advertisement, and with indication of substances they contain) by retail sale exclusively." A medicine-stamp presumably of a similar character to that familiar in this country is foreshadowed. It will be sold by the Excise to manufacturers, and must be affixed before the goods leave the manufactory. When the decree is promulgated, manufacturers will be allowed a week for labelling. Mineral waters will be taxed at the spring or establishments where they are prepared. Here, again, the rate is practically 10 per cent.—2c. a litre on waters sold wholesale at 20c. or less per bottle, 6c. per litre for the more expensive waters. Salts and other preparations for preparing artificial mineral waters will be taxed on the same basis, the number of litres being calculated from the announcements in the advertising or descriptive matter. This applies to home consumption only. Waters for export will be allowed to traverse France tax-free if a proper permit is applied for. Provision will be made by the Minister of Finances for some similar system for pharmaceutical proprietaries, that France's foreign trade may not be unduly handicapped.

Index to Volume LXXXVIII.

As stated in previous issues, we shall supply the Title-page and Index for the volume of THE CHEMIST AND DRUGGIST for 1916 to all subscribers who write to us for it. We suggest that they should ask for this by postcard addressed to THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

Insets.

THE Publisher of THE CHEMIST AND DRUGGIST is now engaged in the preparation of the annual Winter Issue of THE CHEMIST AND DRUGGIST which falls to be published on Saturday, January 27. He wants to include in that issue as many Insets as possible. By "inset" is meant a specially printed price-list or allied business announcement prepared and printed by any business

house connected with the drug and allied trades. Our Publisher has a printed statement in regard to such Insets that business houses should get before they give their printers instructions, and our Publisher asks us to state that he will be glad to send copies of the printed statement to anyone who writes to him or telephones for it.

Cure of Consumption.

"THE British Medical Journal" has commenced a series of articles on "The Incomplete Cure of the Consumptive." It contains nineteen paragraphs, which is a very bad characteristic for an editorial article, but it may be regarded as an indication that the writer has some exceptional knowledge that is not editorial. Practically the article is an effort to prove that the treatment of consumption by open-air and sanatorium methods has not fulfilled the promises of its earlier promoters. It would have been better to say that first ideas regarding open-air treatment of consumption have not been universally fulfilled because the principles have not been rigidly carried out. In fact, the article is a demonstration of the fact that when patients return to the unhealthy and insanitary conditions from which they emerged in the initial stages of the trouble, the disease continues with unabated force.

Chemical Export Trade in 1916.

It will be seen that our exports of chemicals and allied goods as given on p. 42 amounted to practically thirty-three millions sterling, which total is, of course, swollen by the high level of prices, but the record is nevertheless a very satisfactory one. In fact, it may be said that 1916 has been an unusually prosperous year in the wholesale drug and chemical trade, in spite of many hindrances and difficulties which have arisen as a result of the war. As exporters, the country has received the full benefit of the high chemical prices, whereas our imports are similarly inflated, not only by high prices, but by abnormal freights, of which we do not gain the full advantage when the goods reach us in neutral bottoms. The exports of medicines and the like reach the remarkable total of 4,410,457*l.*, or 1,333,552*l.* more than in 1915 and 2,111,272*l.* more than in 1914. These figures could, of course, have been easily exceeded had a free hand been allowed to exporters, but there is no doubt that the increased home production of many synthetic chemicals is making itself felt, and even if there should be a justifiable all-round fall in prices during 1917, as is not unlikely, we have no doubt that the volume or quantity of business that will be done during this year will continue to increase.

Business Names.

We explained fully in our issue of November 25, 1916, p. 53, the provisions of the measure that shortly afterwards became the Registration of Business Names Act, 1916. The Act applies to Great Britain and Ireland. The principal provision is contained in the first section of the Act, which requires the registration of

(a) Every firm having a place of business in the United Kingdom and carrying on business under a business name which does not consist of the true surnames of all partners who are individuals and the corporate names of all partners who are corporations, without any addition other than the true Christian names of individual partners or initials of such Christian names;

(b) Every individual having a place of business in the United Kingdom and carrying on business under a business name which does not consist of his true surname without any addition other than his true Christian names or the initials thereof;

(c) Every individual or firm having a place of business in the United Kingdom who, or a member of which, has either before or after the passing of this Act changed his name except in the case of a woman in consequence of marriage.

The Board of Trade is to carry out the statutory provisions for registration, but until the Board has prepared and published the conditions under which registration is to be carried out in London, Edinburgh, or Dublin, according to the allocation of the business, it will be well for those interested to wait.

Annotations.

COD-LIVER OIL.—We reported in our issue of December 16, p. 40, the substance of a communication to the Chemical Society by Mr. A. Chaston Chapman, F.I.C., in regard to a sample of cod-liver oil from Lisbon. Mr. Chapman informs us that although the oil was submitted to him in the first instance as cod-liver oil, it proved not to be cod-liver oil, but oil from the livers of certain small sharks belonging to the *Spinacidae*, hence the name *Spinacene* which he has applied to the new hydrocarbon isolated from the oil. Mr. Chapman's paper is to be published in the "Transactions" of the Society.

TREATMENT OF AGUE.—Sir Leonard Rogers, M.D., to whom principally the world owes the treatment of dysentery with emetine, which was referred to by "The Times" last week with the highest appreciation, has communicated to the "British Medical Journal" a preliminary note on the "Disappearance of Malignant Tertian Crescents from the Blood following the Intravenous Injection of Tartar Emetic." This emphasises the fact that although quinine kills the ague parasite in the blood, there is something that remains, and the object of Sir Leonard's article is to show that in certain cases of ague malignant tertian crescents are found in the blood, and as long as they are there the ague continues. He gives particulars of several cases where tartar emetic in doses of 4 centigrams or more was intravenously injected and the crescents disappeared. Sir Leonard considers that his observations are of sufficient interest to allow others to make similar investigations, for if the drug should prove successful in really curing malaria or in removing the infectiveness of the patients treated with it, a new and most important addition will accrue to our armamentarium in the battle against the most widespread scourge of tropical and sub-tropical countries, the value of which it would be difficult to over-estimate.

NATIONAL HEALTH.—The Local Government Board has issued the report of its Medical Officer for 1915-16. This contains special information arising from the war, among the subjects dealt with in this connection being dysentery, typhus fever, enteric fever, cerebro-spinal fever, and venereal diseases. In regard to the supply of medical officers for the Army, it is mentioned, incidentally, that one result of the war has been that many lady doctors have been acting as medical officers of health and as assistants in that regard, as tuberculosis officers, and as medical officers in sanatoria and fever hospitals, and their services have been invaluable in the national emergency. It is evident, however, from other parts of the report that the war has effected a development in respect to medical services by women that years of their own quiet work did not do. One of the appendices to the report is by Dr. A. W. J. MacFadden on "The Work of Inspectors of Foods," this having particular reference to the foods called for under war conditions, special supervision having had to be provided by the Department for some of the factories handling such things as pickles and sauces. Referring to the preservation of fruits to be used in making jams, Dr. MacFadden mentions that these are stored in casks, but are very liable to fermentation, with the result that samples contain alcohol in varying amounts, the highest being about 6 per cent. He adds that "pulp of this kind cannot be made into a satisfactory jam. When fermentation of the pulp has advanced beyond a certain stage, jam made from it will not set, owing to the destruction of the pectose of the fruit. In order, therefore, to make a jam which will appear satisfactory, manufacturers sometimes resort in such cases to the use of an artificial stiffening agent. The one now commonly used is known as 'pectin,' a preparation of carrageen moss which has been placed on the market for this special purpose."

ATOMIC WEIGHTS.—No changes have been made for 1917 by the International Committee on Atomic Weights.

A Pharmacist at the Front.

II.

ONE MORNING of sun and wind came the supreme call. Reinforcements were wanted at —, and I was one of the chosen. We set off, some forty strong, and embarked from the jetty, along with another party, in a string of lifeboats, which were towed out to a steamer in the bay. It was a blowy evening, and as we headed for the Peninsula the wind whipped our faces, and showers of spray came leaping over the bows. Before we came athwart of — darkness had fallen, and a great searchlight swept before us. Soon the muffled boom of guns could be heard; star-shells soared above the trenches, and sudden flashes showed where shrapnel was pouring leaden rain from the sky. As I sat on the deck in the lee of a seat, munching biscuits and drinking condensed milk from a hole in the tin, this display of frightfulness seemed to me neither thrilling nor grand nor terrific—but just foolish. We dropped anchor, and as the night wore on it grew wondrous cold. I sought a warmer billet below, and found it on an upholstered seat in the smoking-room. Others who came later slept on the floor. I awoke suddenly, with an agonised yell ringing in my ears. Someone, entering hurriedly to warn us to prepare for landing, had planted his foot, shod in a hobnailed regulation boot, on a sleeping man's face! The injured man's outcry proved an efficient "revally," and we quickly tumbled aboard the steel-built, petrol-driven lighter that was waiting alongside. We landed in the dawn-light on a cramped beach. Then our Odyssey began. Our officer set off, we following, to look for headquarters. In an hour or two we sat down and attacked our "iron rations," when an officer came along and said, "This beach will be shelled in a few minutes. When the firing begins you men had better take shelter in that trench over there." He was as formal as a curate. We had scarcely swallowed our first mouthful of biscuit and bully-beef when the first shell came over. There was a humming in the air and a bang at the water's edge. Not a man moved. These men were typical of the British Tommy in that, although this was their baptism of fire, they could not allow a mere bombardment to interfere with their breakfast.

In the afternoon we reached three field-ambulances encamped. The first question asked was, "Is there a dispenser here?" I stepped forward; a short catechism followed, and I was received forthwith into the bosom of the —th Field Ambulance. I was no longer a "detail," a wanderer on the face of the earth and on the waters, but a member of a unit, with a status and a permanent postal address.

On the whole I had a pleasant time in this Eastern or Oriental situation. It was early November; the attackers and attacked had long ago settled down into trench-warfare, and inertia prevailed. I had almost nothing to do.

The hours off duty were spent in botanising on the sand-hills and on the neighbouring plain, or in exploring a neighbouring stony wilderness. A large number of plants new to me grew in these various localities, and I keenly missed my old friends Bentham and Hooker in their weather-beaten blue-cloth boards. A species of dwarf scrub-oak was by far the commonest form of vegetation on the hills. At a glance you would have set it down for holly had not the acorns, set in cupules with recurved bracts, proclaimed its true character. The only plant I noticed of particular interest to the pharmacist was juniper, which grew in profusion, and at that time of year was jewelled with an abundance of ruby berries. Sea-holly, succory, various sedges and grasses, and here and there (a sight to make one sigh for English meadows!) a few daisies completed the list of recognisable plants.

The tedium of a protracted campaign compels one to cast about for diversions. I became an enthusiastic cook, and devised many strange but tasty dishes from the somewhat scanty materials at my disposal. It was these experiments in the culinary art which led the C.O., coming one day unexpectedly into the dispensary, to observe that the place "smelt like a damned Lockhart!" But in spite of this rebuff I went on cooking. Limp, flaccid rashers of bacon under my hands became crisp, curly, and odorous. The ration of cheese provided many savoury dishes. From golden syrup I produced a candy with the masticatory properties of chewing-gum.

So the weeks wore on, enlivened, not very agreeably, by a great November blizzard, and very disagreeably by a shelling attack by the enemy. I came off without a scratch, and made a fine haul of leaden mementoes among the panniers. A few days later came the incredible order for evacuation, but that is another story.

Pharmaceutical Society of Great Britain.

Council-meeting.

THE monthly meeting of the Council was held on January 10 at 16 Bloomsbury Square, London, W.C. The Councillors present were: Mr. E. White (President), Mr. E. T. Neathercoat (Vice-President), Mr. W. H. Gibson (Treasurer), and Messrs. F. E. Bilson, A. S. Campkin, J. H. Cuff, W. L. Currie, J. W. Deakin, F. J. Gibson, R. L. Gifford, C. E. A. Goode, T. Guthrie, A. Hagon, J. F. Harrington, J. Kcall, L. M. Parry, P. F. Rowsell, H. Skinner, and J. R. Young.

DEATHS.

After the minutes had been read and apologies for absence from Messrs. Harrison and Sargeant notified, the PRESIDENT referred to the deaths of Mr. William Doig, Mr. George Duncan Mackay, and Mr. George William Worfolk.

Mr. CURRIE said Bailie Doig had lived a full and active life, and had been associated with the North British Branch for a number of years; for three years he was Vice-Chairman. He was a fine type of man, courtly and genial to a degree. His wise counsel and ripe judgment on important matters will be much missed. Mr. Mackay was the son of John Mackay, who practically founded the North British Branch. The son was not so prominent in public matters, but what he undertook he did well.

Mr. GUTHRIE also referred to the respect in which Bailie Doig was held.

ELECTIONS AND RESTORATIONS.

Four hundred and ninety-one members were elected and thirty student associates. Two hundred and fifty-three persons were restored to their former position in the Society, and three names were replaced on the Register of Chemists and Druggists. Thirty-one apprentices or students have been registered since the last meeting.

The PRESIDENT said it was very gratifying to see such a large accession of members notwithstanding the adverse conditions of the time. The effect of the elections and restorations was to add 750 members to the Society.

CORRESPONDENCE.

The Privy Council inquired whether the Society can now see its way to take steps for the removal of disabilities under which certified assistants to apothecaries suffer in respect of contracts under the National Insurance Acts. This was remitted to the Law Committee.

The Aberdeen Pharmaceutical Association sent a resolution regarding the proposed dual representative capacity of the Secretary of the Society. This was referred to the General Purposes Committee.

A resolution was also received from the Peterborough Pharmacists' Association regarding the sugar-supply.

The Liverpool Chemists' Association sent a communication regarding the curtailment that has taken place of the duties of Pharmaceutical Committees and the cost to chemists of the administration. Mr. PARRY explained that in Liverpool 300*l.* is levied from panel chemists, and it is felt that no adequate return is given. The matter was referred to the Local Associations Executive.

FINANCE COMMITTEE.

The Secretary then read the report of the Finance Committee, which sat on the previous day.

The receipts of the General Fund since the last meeting were 738*l.* 14*s.* 6*d.*, made up as follows: Penalties and costs, 61*l.* 16*s.* 2*d.*; "Journal," 2*l.* 17*s.*; B.P. Codex, 3*l.* 2*s.* 6*d.*; subscriptions, 13*l.* 13*s.*; registration-fees, 60*l.* 18*s.*; restoration-fees, 1*l.* 1*s.*; certificates of qualification, 8*l.* 2*s.*; school-fees, 12*l.* 12*s.*; Executive Committee travelling-expenses repaid, 106*l.* 7*s.* 8*d.*; sundry sales, 45*l.* 12*s.* 5*d.*; examination-fees, 365*l.* 9*s.*; dividends, 57*l.* 3*s.* 9*d.* After deducting the payments ordered at the last meeting there remained a balance of 188*l.* 15*s.* 6*d.* The balances on the Benevolent Fund were: Current account, 169*l.* 4*s.*; donation account, 117*l.* 15*s.* 11*d.*; Orphan Fund, 111*l.* 17*s.* 2*d.*

The TREASURER moved the adoption of the report, and said there was ample reason for the smaller amount received for examination-fees.

The report was adopted.

BENEVOLENT FUND COMMITTEE.

Mr. BILSON moved the adoption of the report of this Committee (two grants, amounting to 26*l.*, were recommended), and mentioned that 10*l.* had been received from the West Ham Association for the Orphan Fund and

18l. 15s. from an anonymous donor, the latter gift being accompanied by the following letter from Mr. Richard Bremridge:

"I am very pleased to be the agent of a pharmacist who prefers to be anonymous, and who has sent me a donation of 18l. 15s. to the Orphan Fund, a cheque for which is enclosed. My friend was interested some years ago in a case in which he had a practical demonstration of the great value of that Fund, in praise of which he has been good enough to express himself in the highest terms. He desires the donation to be recorded as 'In memory of my little Rita,' his only child. It is a pathetic incident and has aroused my sympathy; it has also made me more grateful than ever to the memory of the founder of the Fund, the administration of which has, to my knowledge, brought so much intense relief."

The report was adopted.

LIBRARY COMMITTEE.

The report of the Library, Museum, School, and House Committee was next read. This included approval of an account for 12l. 10s. for house repairs. The Council was also asked to approve of the President's report on the teaching of microbiology to pharmacists.

This report, which was circulated among the Councillors, states that it is impossible, at any rate at the outset, for the Society to attempt to establish a course which would result in turning out complete and competent bacteriologists, but it is possible and desirable to institute a course of lectures and practical work which would enable pharmacists taking the course to handle vaccines and serums intelligently, and to prepare themselves for developments which will undoubtedly take place in that phase of medical treatment. The room available could be readily adapted for the purpose in view. The provision of an incubator, steriliser, and minor apparatus, together with oil-immersion lenses and sub-stage condensers for two microscopes, which would be loaned from the school, would cost approximately from 50l. to 100l. An autoclave could be loaned from the research laboratory. A laboratory attendant could be obtained for from 35s. to 2l. per week. . . . The proposed laboratory would accommodate six students, who would work for three successive mornings or afternoons in each week; a maximum of four sections of six students each could therefore be accommodated. It would be advisable to commence with a course of twenty lectures; the practical work would comprise about ten weeks. A fee of one guinea should be charged for the lectures and a separate fee of five guineas for the practical work. Dr. Burnet has expressed his willingness to undertake the work for the term, and would be satisfied if half the students' fees were allotted to him.

It was stated that the resolution of the West Ham Association had assisted the Library Committee in coming to a decision on this matter. The solicitors for the Ransom Research Fellowship attended, and have deposited 2,000l., and it now remains for the seal of the Society to be affixed to the deed. The Committee also approved of certain proposals made by the solicitors to the executors of the will of J. J. Petrie, Aberdeen, in which the Society is interested as a residuary legatee.

The PRESIDENT, in moving the adoption of the report, said that in his estimate of the cost of the scheme for teaching microbiology (200l. a year) he had made no allowance for the fees to be received from the students.

The report was discussed in Committee, and a resolution carried that the report be further considered by the Finance Committee.

The PRESIDENT mentioned that Mr. Francis Ransom would be at lunch with the Council later in the day, and it was proposed to convey to him the formal appreciation of the Council for his liberality in founding the Ransom Research Fellowship.

The report was adopted.

PARLIAMENTARY COMMITTEE.

The report of the Parliamentary and General Purposes Committee was then presented. The question of the supply of cocaine to public institutions was considered, on the suggestion of Mr. SKINNER, and the Secretary explained the reasons for the alteration in the regulations. The sugar-supply was further considered, and it was agreed that the Parliamentary Secretary should approach the proper Department and arrange for the deputation to interview the authorities. The Secretary explained the position in regard to restrictions on the sale of glycerin.

LOCAL ASSOCIATIONS COMMITTEE.

The report of this Committee, which formed part of the report just mentioned, stated that the suggestions of the Superintendent of the Checking Bureau for improved methods were adopted. The resolution from the London

Association regarding concerted action from panel pharmacists in future negotiations with the Insurance Commissioners was considered, and it was resolved that a Sub-Committee be appointed to consider the total remuneration from Insurance dispensing, and that Associations be instructed to submit their views on the matter before March 31. The Sub-Committee appointed consisted of the President, Vice-President, and Messrs. Rowsell, Sargeant, Deakin, Joseph, Waring, and Jenkin. Resolutions from the Essex Association regarding stock mixtures were discussed, and the Association is to receive an explanatory letter on the matter. Mr. Body brought forward a plan of organisation, which is to be discussed next month. Mr. Mallinson was reappointed Superintendent of the Checking Bureau.

The report was adopted.

PRELIMINARY EXAMINATIONS.

The PRESIDENT reported that with Professor Jackson he attended a Conference called by the Teachers' Registration Council to consider Preliminary examinations. The matter is still in abeyance, but the views of the Society—that the number of bodies issuing certificates could be usefully reduced—were placed before the Conference.

FUNDS FOR RESEARCH.

The PRESIDENT also reported that he attended the deputation to Lord Crewe from the Royal Society's Advisory Committee (*C. & D.*, December 9, 1916, p. 45), when the Government reported the intention to allocate large funds for the purpose of research.

A member's name was by resolution removed from the roll.

AFTER THE WAR.

Mr. SKINNER then moved the following resolution:

"That it is desirable for the Council to be prepared with a scheme, either by setting up a bureau or other suitable means, to assist those pharmacists who are at present members of his Majesty's Forces to obtain fitting employment on their return to civil life, and to consider what measures are possible to ameliorate the condition of any who have been physically crippled by the war."

In a sympathetic speech Mr. Skinner suggested that the Benevolent Fund Committee should consider a scheme for setting up an employment register, and for assisting those who are crippled. It is not intended that this shall be a matter of charity, but he considered that the Benevolent Fund Committee would be the most suitable to draw up a scheme.

Mr. DEAKIN, who seconded, said the Council's watchwords in relation to the motion should be "duty" and "privilege."

The motion was adopted unanimously.

THANKS TO MR. RANSOM.

On the proposition of the PRESIDENT the following resolution was carried unanimously:

"That this Council desires to place on record its high appreciation of the generosity of Mr. Francis Ransom in establishing and endowing the Ransom Research Fellowship, and its sense of satisfaction that the scholarship is for the promotion of work in the investigation of crude drugs and the solution of problems of purely pharmaceutical bearing. The Council tenders its best thanks to Mr. Ransom."

This concluded the public business.

Minor Examinations in London and Edinburgh.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted Minor certificates at the recent examinations held in London and Edinburgh:

London.

Aslett, R. A., Hove	Jones, J. M., Ferryside
Blundell, Elsie B., Liverpool	Kirkpatrick, L. A. E., Upton
Chadwick, H., Wigan	Manor
Cheetham, S. H., Rochdale	Lester, F. A., Sheffield
Clucas, Elsie N., Bradford	Lewis, W., Waenfawr
Davies, J. C., Tredgar	Marsh, G., Bolton
Davis, W. E. G., Lechlade	Shelley, Dorothy M., Walsall
Day, A. V., Milverton	Stockwell, L., Netherton
Dean, Dorothy M., Manchester	Thomas, H., Rochdale
Driffield, J. H., Spilsby	Watt, Mabel E. A., Up. Clapton
Evans, Margaret W., Ammanford	White, A. N., Thornbury
	White, R., Brigg

Edinburgh.

Delicate, J., Durham	Smith, J. B. H., Greenock
Gardner, R., Glasgow	Stevens, Jane C., Edinburgh
Green, J., Kirkcaldy	Vickers, A., Whitehaven
Sharp, A., Loanhead	Wilson, J., Kirkintilloch
Sibbald, D. R., Edinburgh	

Trade Notes.

A PARALLEL between the greatest War Loan in history and the "Parex" toilet-preparations is established on "Maw's Page" this week.

SALTPETRE is a special line with Madero Bros., Inc., 115 Broadway, New York. This and other chemicals are mentioned in the company's advertisement.

CHEMICAL PRODUCTS.—Mr. John C. Sparks, dye, chemical, and drug broker, 30 Church Street, New York, offers for prompt shipment aniline products and logwood extract.

"A1" SEEDS.—Shirley Bros., Ltd., Whitecross Works, London, S.E., have produced a special 3d. line in vegetable seeds for use in allotments. These are referred to in the company's advertisement in this issue.

CARNEGIE BROS., 227 and 229 Essex Road, London, N., send out a combined scribbling diary and blotter for the desk which is convenient for business-houses. The whole measures 16 in. by 10½ in., the blotter occupying the greater portion of this desk-companion.

"T.M." FROZEN BRILLIANTINE is a new line placed on the market by Christy's, Old Swan Lane, London, E.C. The brilliantine is in oval metal boxes, and sells at 9d. The price is protected under the scheme of the Proprietary Articles Trade Association.

THE WINTER TRENCHMAN BELT, which is made by May, Roberts & Co., Ltd., 7 to 13 Clerkenwell Road, London, E.C., is a flannel anti-vermin body-belt with many pockets. This is a topical line about which particulars are given in May, Roberts & Co.'s advertisement.

THE HILLCREST OIL CO. (BRADFORD), LTD., oil distillers and refiners, Bradford, send out a wall-calendar measuring 18 in. by 27½ in., which has in the centre a very beautiful coloured print of "Venice in 1432." The calendar portion is in monthly tear-offs. The whole thing is a most artistic production.

BENGER'S FOOD.—An announcement regarding the supply of Benger's Food is made by Benger's Food, Ltd., Manchester, in our advertising pages, which chemists should especially note. The purport of the notice is that in consequence of labour and transport difficulties priority of execution of orders has had to be established in favour of hospitals, etc., and orders should state if any or what proportion of the goods is required for the purposes named.

PARA-QUIT is the name of a paste prepared by Lawson & Co. (Bristol), Ltd., St. Philips', Bristol, for destroying parasites on the body and clothes, and also for keeping away lice, fleas, bugs, flies, mosquitoes, and parasites generally. The paste is put up in collapsible tubes and in flat round tins, and is also sold as a potash soap containing 10 per cent. of Para-quit. There is a large demand by soldiers for an efficient preparation of this kind, and the testimonials which have been received by the makers show that Para-quit answers the purpose. It is, in addition, endowed with a not unpleasant odour, which is a recommendation. Para-quit in tubes or flat tins sells at 10½d., and the soap at 6d. a cake.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackburn.—At the last meeting of the Insurance Committee a letter was read from the Commissioners advertising to the position of the dispensing staff of Boots, Ltd., and Taylors' Drug Stores, Ltd., under the Military Service Act, stating that an agreement had been reached with the Army Council as to the total number of employes of either company throughout the country who are to be released for military service, and explaining the manner in which such agreement is to be carried out. The name of Mr. W. H. Lomax, Ph.C., Church Street, Darwen, has been added to the chemists' panel. The Clerk reported that the time has expired for both doctors and chemists to give notice to the Committee of their desire to have their names removed from the panel. At present there are sixty-one doctors under agreement with the Committee and thirty-two chemists and four drug-store proprietors. It was decided that the name of Mr. H. Robinson, trading as the Walworth Pharmacy, be not included on the panel for the ensuing year, as he has apparently given up the business.

The Clerk gave a return contrasting the cost of drugs under the old and the new Tariff prices. For the first and second quarters under the new system the prescriptions numbered 42,330 and 33,069, while the dispensing-fees were 474l. 10s. and 427l. 8s. In the corresponding period in the previous year the dispensing-fees for 37,977 and 33,838 prescriptions were computed to be 224l. 19s. and 292l. A letter from the Commissioners showed that an additional sum of 755l. 11s. 6d. has been credited to the Committee under the Emergency Settlement for 1914, making a total credit of 6,214l. 9s. 11d. towards the payment of 85 per cent. of the total amount of accounts checked during that year. The Prescription Bureau certified that the number of prescriptions dispensed for October last was 10,605, and the action of the Clerk in paying 75 per cent. of the cost was confirmed.

Essex.—At a Committee-meeting of the County Association on January 2, the following resolutions were passed, and the Secretary was requested to forward the same for the consideration of the Local Associations Executive:

"While cordially accepting the regulations of the Food and Drugs Act for N.H.I. work, the Essex Association ask what steps are being taken to protect pharmacists from an unfair operation of the Act with regard to stock mixtures."

"That, stock mixtures being forced upon the county, they regret the inclusion of U.S.P. preparations in the same, as they are not in general use, and could be replaced by B.P. preparations of at least equal value. They trust the earliest endeavour will be made to remove them from the Formulary in question."

The Pharmaceutical Committee met on January 2 at River Plate House, Finsbury, Mr. Matthews (President) in the chair. After a good discussion, it was decided to adopt the scheme of the Central Checking Bureau for 1917. The Secretary was instructed to persist in his effort to obtain the late-dispensing fee, the stumbling-block to the same being the Panel Committee. An attempt has been made to come to an understanding with the latter Committee upon the matter; the result of which is not yet known. A doctor complained that an insufficient dispensing service was maintained on Saturday nights and Sundays, but the opinion of the Committee was that sufficient service was provided, any emergency being fully met by the regulations under which the medical man was entitled to payment. Mr. Kirkpatrick, Upton Manor, has been co-opted in the place of Mr. Cocker, who retires from the Committee through non-attendance.

Holland (Lincs).—The Insurance Committee on January 1 adopted the Finance Committee's recommendation of an additional war allowance of 3d. per prescription to panel chemists for 1916 and 1917, subject to a satisfactory and adequate pharmaceutical service being secured for the ensuing year.

London.—The Pharmaceutical Committee met on January 9, Mr. A. R. Melhuish in the chair. Messrs. Sparks, Barnard, Hatfield, Milner, Melhuish, and Jenkin were appointed to confer with representatives of the Panel Committee on the effect of the Early-closing Order. During the nine months ended September 30 last, 3,168,222 prescriptions were dispensed at a total cost of 70,797l. 7s. 7d., and an average of 5.36d. The settlement of chemists' accounts for 1915 is to be made this week. The question of a revised edition of the London Insurance Pharmacopoeia is still under consideration. The Secretary reported thirty-five resignations from the chemists' panel, three of these being unqualified contractors. The dispensing service in Hackney is unsatisfactory, but steps are being taken to remedy this. A chemist's complaint as to the ordering of three L.I.P. mixtures as the components of one bottle of medicine is to be reported to the Panel and Insurance Committees. The Insurance Committee propose to make monthly payments in advance for 1917 at the rate of 5d. per script.

Staffordshire.—The Insurance Committee met on January 6, when the Medical Benefit Committee's report on stock mixtures was considered. The Committee, at a previous meeting, had discussed the question of sanctioning the use of stock mixtures, and an impression prevailed among many of the members that the Panel Committee had adopted certain stock mixtures under pressure from the Commissioners. The Commissioners had written stating that the Committee were under a misapprehension on that point, and the Chairman of the Panel Committee said that the Commissioners had not brought any pressure to bear upon them. Mr. J. Kendrick said he did not like the use of stock mixtures, and if they were not obliged to use them they should not do so. The subject was eventually referred to the Medical Benefit Committee for reconsideration.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C., January 11, 5.30 p.m.

As the month progresses business in chemicals and drugs is gradually broadening, and by next week it is anticipated that it will be fully resumed. The rising tendency in a few crude drugs has again become more noticeable, and this week we have to report an advance in cubebs, canella alba, nux vomica, and a further one in cascara sagrada. Podophyllum-root to arrive is lower. Among pharmaceutical products a reduction has taken place in salicylates, acetyl-salicylic acid, acetanilide, chloral hydrate, hydroquinone, and methyl salicylate. Caffeine pure is dearer from makers; milk-sugar and potash chlorate are also higher. Phosphoric acid is dearer, and hydrobromic acid lower. Menthol quiet. Essential oils are quiet, with more demand for cassia to arrive; lemon is dearer in Sicily.

Higher	Firmer	Easier	Lower
Caffeine, pure	Citric acid	Acetyl-salicylic acid	Acetanilide
Canella alba	Coconut oil	(London pressed)	Canary-seed
Cascara sagrada	Myrrh	Ammon. sulphate (export)	Chloral hydrate
Castor oil (Cal. seconds)		Cassia oil (c.i.f. terms)	Hydroquinone acid
Cubebs		Castor oil (Hull firsts, forward)	Hydroquinone Methyl salicylate
Gamboge		Cottonseed oil (crude)	Podophyllum-root (c.i.f.)
Honey		Kola	Salicylic acid
Lemon oil		Oxalic acid	Turpentine
Milk-sugar		Peppers	
Phosphoric acid		Senna-pods (Tv.)	
Potash chlorate			

Cablegram.

NEW YORK, January 11.—Business in drugs is fair. Opium has advanced to \$14.50 per lb. for druggists. Sweet oil of birch has been reduced to \$2.25. Cascara sagrada is 4c. higher, at 9c. per lb. Belladonna-leaves are lower at \$1.35. Morphine sulphate is higher at \$7.40 per oz., and codeine sulphate at \$8.65 per oz.

ACETANILIDE is offered at from 2s. 8d. to 2s. 10d. per lb. net on the spot. American makers have reduced their prices by two cents per lb., making the revised quotation in barrel lots 48 cents per lb.

ACETYL-SALICYLIC ACID of finest quality can be had at 18s. per lb. net, up to 20s. being quoted.

AMMON. CHLOR.—Large crystals in casks are quoted at 60s., and granular at 47s. 6d. per cwt. net.

AMMONIA SULPHATE.—Firm. Home-trade price is 15l. 10s. per ton for January-February delivery. Export prices are: London, prompt, 25-per-cent., 17l. 7s. 6d. per ton net, naked at works; Hull, 24-per-cent., 18l. 7s. 6d.; Liverpool, 18l. 15s.; Leith, 18l. 17s. 6d., less 3½ per cent. in bags f.o.b. ANISE OIL (STAR) is held at 3s. 6d. per lb. for "Red Ship" brand on spot, and at 3s. 5½d. c.i.f.

BARBITONE.—Dealers are asking higher prices, up to 110s. per lb. net being quoted.

BLEACHING-POWDER remains firm at 33l. per ton from dealers' hands.

BROMIDES.—Current rates are: Potassium crystals, 6s. 6d. to 6s. 9d. net; ammonium, 5s. to 5s. 3d. net; and sodium, 3s. 11d. to 4s. 3d. net.

CAFFEINE.—In their January list makers' prices of pure crystals show an advance of 10s. per lb. over those of

December, the quotation being from 40s. to 40s. 4d. per lb. These are the nominal values for home trade requirements. In dealers' hands pure is offered at 47s. 6d., which is rather lower: soda benzoate and soda salicylate of caffeine offer at 45s. per lb.

CAMPOR (REFINED).—Spot supplies of Japanese are much depleted, and 1-oz. tablets seem badly wanted.

CANARY-SEED, owing to absence of business, must be quoted lower, at 80s. to 82s. 6d. per quarter for fair to good Morocco.

CANELLA ALBA has been scarce for a lengthy period, and the last price paid from first-hands was 70s. per cwt., but sales have been made by druggists up to 80s. per cwt. In auction a new lot of ten bales of fair pale quill offered, and 75s. was the price asked.

CASCARA SAGRADA.—The spot supplies are well under control, and some would suggest that there is practically a "ring" in the drug among the large holders. Although nothing yet over 85s. has been paid on the spot, 100s. per cwt. is asked at the close. This recent advance has followed one in the c.i.f. price, which for shipment, say, January-March, is 72s. 6d. Bullish reports continue to be received from the Pacific Coast, from whence, it is said, no new bark will be shipped before June-July. New York dealers seem rather shy, and prefer to look on. In the London auction 320 bags (about three tons) of fair thin quilly bark of 1916 import had been sold privately.

CASSIA OIL.—Business to arrive has been done in 80 to 85 per cent. c.a. at the rather easier price of 4s. 1d. per lb. c.i.f. Spot price is about 4s. 6d. per lb. for this grade.

CASTOR OIL.—Hull make of first-pressing is easier for forward delivery at 70l. per ton f.o.b. in barrels. In Liverpool good seconds Calcutta offers at 7½d. per lb., which is ½d. dearer.

CHLORAL HYDRATE is easier at 7s. 3d. per lb. net for crystals *in bond*.

CHRYSAROBIN is obtainable at rather lower prices.

CINCHONA.—The exports from Java during December amounted to 1,114,000 Amst. lb., against 958,000 Amst. lb. last year and 646,000 Amst. lb. in 1914. The total for 1916 is now 17,152,800 Amst. lb., against 11,222,000 Amst. lb. in 1915 and 14,021,000 Amst. lb. in 1914.

CITRIC ACID is firmer at 2s. 7½d. per lb.

CLOVES are inactive, with sellers of fair Zanzibar on spot at 8½d.

COD-LIVER OIL.—Our Bergen correspondent writes on January 2 that there is no business to report, and quotations are nominal.

CORIANDE-SEED is slow of sale, but steady, at 57s. 6d. per cwt. for fair quality Morocco.

CREAM OF TARTAR still scarce and very firm at from 185s. to 187s. 6d. per cwt. on the spot for 98-per-cent. powder.

CUBEBS.—A good speculative business (probably about 150 bales) has lately been done at from 9l. 5s. to 13l. per cwt. on the spot, and the buying movement has been assisted by cables from Bombay quoting higher prices both spot and forward. In auction a new lot of 10 bags small stalky berries was offered and 15l. per cwt. was wanted.

CUMIN-SEED.—Small sales are being made at 87s. 6d. per cwt. on the spot for good sifted Morocco, being steady. In the drug auction 136 bags of fair Morocco, which are very scarce, were retired at 90s. per cwt.

ETHERS.—The new prices do not yet appear to have been officially fixed. Those prepared from pure spirit will probably be 4½d., and those from industrial methylated spirit 4d. per lb. dearer.

EUCALYPTUS OIL.—Arrivals amounting to 530 cases have taken place this week. A fair seasonable demand is reported at steady prices, varying from 2s. 3d. to 2s. 5d. per lb. according to cineol content.

FENUGREEK-SEED is firm at 34s. per cwt. on the spot for fair Morocco.

GALLS.—Sales of Chinese for January-February shipment have been made at 94s. per cwt. c.i.f. London. In the drug auction 23 cases of rather dusty plum-shaped Chinese were retired at 90s. per cwt.

GENTIAN.—Whole French can be had at 72s. 6d. per cwt.; cut is very scarce at 130s.

HYDROBROMIC ACID has been reduced by makers to 1s. per lb. net for B.P. dil. 10-per-cent.

LEMON OIL.—Much higher prices have been cabled from Sicily this week—viz., 4s. 6d. to 4s. 9d. c.i.f. The spot price is 4s. to 4s. 3d. With the restricted home consumption of sugar the demand for lemon oil for confectionery and mineral-water purposes is also of necessity curtailed.

LINSEED is dull at about 105s. to 110s. per quarter for fair quality.

METHYL SALICYLATE can still be had at 6s. per lb. net.

NUX VOMICA.—At the moment nothing appears to be offering from Calcutta, and spot supplies remain extremely

small. In auction only four bags good small thick dullish ex land carriage offered, and sold at 31s.

OILS (FIXED).—*Linseed* is firm, closing at 50s. 3d. per cwt. in pipes landed and 51s. 3d. landed in barrels. *Cottonseed* is lower at 49s. 6d. for crude in pipes, and pale refined in pipes on spot is nominal; for sweet refined in barrels from 58s. to 60s. is quoted. *Rape* is firm, with ordinary brown naked on spot offering at 54s.; British refined in barrels is 57s. to 59s., and Japanese in cases is 51s. c.i.f. for January-February shipment. *Coconut* is quiet at 65s. for Ceylon in hogsheds on spot and 63s. in pipes. *Cochin* on spot is 65s. to 67s., and shipment 64s. c.i.f. London pressed is 53s. *Hankow Wood oil* is 76s. spot and 65s. c.i.f. *Soya* is quiet; *Hull (spot)* crushed is 49s., and in London December-January shipment is 47s. 6d. c.i.f. *Lagos Palm* is firm at 51s. on spot, and 47s. 9d. ex quay Liverpool.

OPIMUM continues firm, and further sales of 10-per-cent. Persian have been made on the spot at 35s. per lb., and 36s. is now asked, with small spot stocks.

OXALIC ACID has easier tendency at 1s. 6d. per lb.

PEPPERMINT OIL is unaltered at 10s. 6d. to 10s. 9d. for finest Wayne County in tins, and H.G.H. is selling at 14s. 6d. London terms.

PEPPERS are dull and easier. Fair black Singapore on spot has sellers at 10½d., Lampong 10¾d., and Tellicherry 10½d. Value of fair white Singapore on spot is 11d. nominal, Muntok 11½d., and Penang 11d.

PHENACETIN is offered at from 95s. to 97s. 6d. per lb. net on the spot.

PHOSPHORIC ACID is 2d. per lb. dearer at 1s. 1d. per lb. for conc. s.g. 1.50, and ½d. dearer for B.P. dil. s.g. 1.08.

PODOPHYLLUM-ROOT.—To arrive, the rather lower price of 55s. per cwt. c.i.f. is quoted.

POTASH CHLORATE rather dearer at 2s. 8d. per lb. from the makers.

POTASH IODIDE.—Japan offers by cable at 14s. 6d. per lb. c.i.f.

PYRAMIDON is offered at 55s. per lb. net on the spot.

PYROGALLIC ACID.—American resublimed in kegs is 15s. 6d., and crystals 14s. 6d. per lb. net.

QUININE.—The landings in London during December were 52,096 oz., and the deliveries 12,976 oz., leaving a stock on December 31 of 1,225,120 oz., against 1,555,616 oz. in 1915. The Board of Trade Returns give the following figures:

	1914 Oz.	1915 Oz.	1916 Oz.
Imports ...	1,868,515	4,581,646	3,727,022
Brit. exports ...	1,477,703	2,412,969	1,699,001
Re-exports...	82,865	701,055	219,805

RESORCIN is obtainable at rather lower prices in sympathy with America.

SALICYLATES.—There are now sellers of small lots of salicylic-acid powder of English or American make at 4s. 9d. to 5s. for prompt delivery. Sodium salicylate is quoted at 5s. 9d. to 6s. per lb.

SALOL is offered at from 10s. to 11s. per lb. net on the spot, but competition is very keen; for prompt shipment from United States there is an offer at 6s. c.i.f.

SENEGAL.—A fair quantity has recently been sold on the spot, and in one quarter 3s. 2½d. net is now lowest for good.

SHELLAC is steady, with a fair spot business, usual standard TN Orange selling on a basis of 145s. to 146s., and A.C. Garnet at 157s. 6d. Futures have been irregular but rather dearer, March selling at 142s. to 147s. and May 148s. 6d. to 150s. to 149s. The Italian Government has released 4,800 packages of shellac destined for America, which have been lying at Naples since the outbreak of war. Considerable interest attached to this development, as shellac values have risen in New York to practically prohibitive levels owing to the scarcity of supplies brought about by an embargo from London and inadequate shipping room from Calcutta.

SODA SULPHATE.—Pea crystals of B.P. quality is offered at 7½. per ton in bags.

SQUILL.—Spot stocks are fair, and sales have been made at 50s. for white, but, on account of freights and war-risk insurance, holders are inclined to advance. Brown can be had at 45s. per cwt.

SULPHO-CARBOLATES.—Both soda and zinc are quoted at 3s. 3d. per lb. net.

SULPHUR remains firm at 20½. per ton for flowers and 19½. for roll, ex wharf London.

TANNIC ACID.—*Leviss.* is quoted at from 4s. 10d. to 5s. per lb. net as to quality; technical is 1s. 9d. *Pure Gallic* is 5s. to 5s. 3d. net as to quantity.

TARTARIC ACID is steady at 2s. 7d. to 2s. 7½d. per lb. on spot.

TERPIN HYDRATE is quoted at 2s. 3d. per lb. net.

TURPENTINE.—A good business continues to be done at generally lower prices, American on spot closing at 53s. 6d. spot, and February-April at 54s. 3d.

London Drug-auctions.

Commercial Sale Rooms,

Mincing Lane, E.C., January 11.

After an interval of four weeks the drug auctions were resumed, when, as usual, supplies much in excess of buyers' requirements were offered, but a fair quantity sold. *Cape aloes* was slow of sale, but firmly held. *Sumatra benzoin* brought steady rates, and was in better demand. *Chiretta* is held for a slight advance. *Cardamoms* continue neglected, export still being banned. *Cascara sagrada* is held for a substantial advance. *Dragon's blood* is neglected, but no reboiled is on offer. *Gamboge*, being scarce, brought a 5s. advance, and for honey of all descriptions there was remarkable competition, and prices irregularly advanced from 5s. to 5s. per cwt. *Ipecacuanha* sold at steady prices for damaged. *Kola* brought easier rates, and for good myrrh, which is scarce, an advance was paid. *Nux vomica* is very scarce. *Rhubarb* is quiet, as is usually the case at the beginning of the year. *Grey Jamaica sarsaparilla* brought steady rates, no Lima being offered. *Tinnevely senna* was also steady, but pods rather easier. *Alexandrian leaf* is held for very high prices. *Jamaica beeswax* was "full up" to 2s. 6d. per cwt. better. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite (Jap.)	11	11	Honey—		
Almond oil	10	0	Cuban	542	328
Aloes—			Honolulu	416	416
Cape	84	9	Jamaica	280	180
Curacao	26	0	San Domingo	251	251
Socotrine	22	10	Various	236	236
"Zanzibar"	25	3	Kola	200	8
Anise oil, star	10	0	Laurel-leaves	50	0
Annatto-seed	43	0	Lime oil	10	0
Balsam tolu	17	10	Liquorice-root	142	0
Benzoin—			Lycodium (cwt.)	5	0
Siam	13	0	Madder-root	5	0
Sumatra	256	48	Mastic	10	0
Blackhaw-bark	8	0	Mint oil (Jap.)	14	0
Boldo-leaves	20	0	Myrrh	22	22
Buchu	29	*1	Nux vomica	4	4
Calumba	83	0	Olibanum	100	0
Cannabis ind. —			Orange oil (cs.)	1	0
African	30	0	Orange-peel	5	0
Bombay	4	0	Piche-herb	20	0
South African	6	0	Puree	1	0
Canella alba	10	0	Rhatany	31	0
Cantharides	5	0	Rhubarb	53	10
Cardamoms	142	9	Rosin (Greek)	44	0
Cascara sagrada	320	*320	Sandalwood	21	0
Cascarilla	40	16	Sarsaparilla—		
Cashew-nuts	50	0	Grey Jam	22	10
Cassia-leaves	23	0	Honduras	6	6
Chiretta	43	5	Mexican	25	*20
Cinchona	6	0	Native Jam	5	2
Cochineal	36	0	Senna and pods—		
Colchicum-seed	1	0	Alex. & Arabian	86	0
Condurango	183	0	Tinnevely	919	332
Copaiba	8	0	Squill	88	0
Croton-seed	52	0	Stavesacre	8	0
Cubebes	10	0	Sulphur	4	4
Cuttlefish-bone	47	0	Tamarinds (E.I.)	96	0
Dill-seed	40	0	Tonka-beans	5	0
Dog-grass	102	0	Tragacanth	58	0
Dragon's-blood	43	0	Turmeric	398	0
Elemi	39	5	Uva ursi-leaves	3	3
Ergot	60	0	Valerian (Jap.)	4	0
Galangal	20	0	Wax (bees')—		
Galls (Ch.)	23	0	Abyssinian	30	0
Gamboge	1	1	East Indian	82	*29
Gentian	85	0	French	31	0
Gentian-powder	11	0	Jamaica	12	*12
Guaiacum	6	1	Morocco	10	0
Guarana	2	0	Mozambique	5	5
Gum acacia	24	1	Ipecacuanha—		
Ipecacuanha			Wax veg. (Chin.)	2	0
Matto Grosso	25	8	Witch hazel-bark	1	0

* Sold privately.

ACONITE.—A sale of 11 bags of fair Japanese was made at 45s. per cwt.

ALOES.—*Cape* was quiet, good Mossel Bay firsts being held firmly at 42s. per cwt. Three cases of ullaged firsts sold at 39s., five cases of ordinary seconds at 35s., and one case mixed with dirt at 35s. per cwt. Of *Socotrine* in kegs, ten sold at 90s. for fair hard, and three cases of inferior black nondescript "Zanzibar" sold at 37s. 6d. The exports

from the Union of South Africa during September 1916 amounted to 110,555 lb. (9107.), against 47,435 lb. (2587.) for September 1915. During the nine months ending September 30, 1916, the exports were 838,079 lb. (7,8027.), against 338,235 lb. (2,9357.) in 1915.

BALSAM TOLU sold at steady rates, ten cases of all more or less slightly drossy and of fair flavour realising 1s. 7d. per lb.

BENZOIN.—A fair quantity was disposed of, the sales including thirteen cases of good fair Sumatra alomdy seconds, well packed and hard gum at 7l. 10s. per cwt. Four cases of fair ditto with old fracture sold at 7l. 5s., subject. Twenty-eight cases of fair seconds realised 6l. 10s., and country cut 6l. Middling seconds went at 5l. 15s. per cwt. Of Siam, which is plentiful, 23l. per cwt. is wanted for small to bold loose almonds of good flavour.

CARDAMOMS.—Still almost unsaleable owing to the export ban. Eight cases Ceylon-Mysore, brown and split, sold at 10d. per lb. subject to sellers' approval, and bids of 1s. are to be submitted for eight cases small green. Medium and bold smooth pale were limited at 3s. A case of inferior seed sold at 1s. 4d.

CASCARILLA.—A new lot of 40 packages offered, of which 16 bales consisted of fair bright small quill, part silvery, which sold at from 92s. to 98s.; sea-damaged siftings were bought at 60s.

CHIRETTA.—A new lot of forty-three bales offered, of which five sold at 1s. for slight country-damaged.

CONDURANGO is obtainable at from 11d. to 1s. per lb., as to seller.

DILL-SEED.—A lot of forty bags fair East Indian was strictly limited at 30s. per cwt.

ELEMI.—Five cases of dull yellow sold at 45s. per cwt.; 60s. was wanted for the best on offer.

GAMBOGE.—A single case, all that offered, sold at 25l. 5s. per cwt. for fair rather damp blocky mixed Siam of orange fracture, being 5s. per cwt. dearer.

GUAIACUM.—A single barrel of slightly drossy block sold at 8d. per lb.

HONEY met with a remarkably good demand, and, with keen competition from many buyers, prices were driven up irregularly from 3s. to 5s. per cwt. Of Jamaica 180 packages sold comprising nice pale set, in barrels, 60s. to 63s.; good yellow set, 55s. to 58s. 6d.; brown to brownish set, 51s. to 53s. 6d.; dark brown set, 49s. to 50s.; and inferior dark, 42s. 6d. to 45s. Of Honolulu 416 cases offered and sold at from 51s. to 54s. 6d. per cwt. for set and setting dark brown to palish ditto. Of Cuban 328 packages sold, including pale set, in casks (almost white), 52s. 6d. to 55s.; darkish amber to palish set and setting, 50s. to 54s.; fair brown set, 52s. to 55s.; brown set and setting, 47s. 6d. to 49s.; ordinary dark set, 45s. Of San Domingo 251 packages offered and sold, including fair to good palish brown set in casks and barrels at 52s. 6d. to 54s., and ordinary to fair darker ditto, 48s. to 50s. per cwt. Privately the demand continues good, the sales including Cuban at 47s. 6d.; banana set Jamaica at 52s. 6d. Californian has still a rising tendency, light amber offering at 49s., and water-white at 54s. c.i.f. Hawaiian light amber at 45s., white 49s., and water-white 54s. per cwt. c.i.f.

IPECACUANHA.—Steady. Of Matto Grosso, 8 bales sold at 8s. 6d. (one lot 8s. 7d.) for ordinary lean and slightly mouldy. For good bold sound of which practically only one bale offered, 10s. was wanted.

KOLA was again in large supply and quiet; five packages of fair bright West Indian halves sold at 5d. to 5½d., and dull and part mouldy at 4d. per lb.

MYRRH is dearer, ten bales of good fair, partly blocky, Aden sorts, slightly mixed with glassy, sold at from 73s. to 75s. per cwt. Ten bales of dark siftings sold at from 40s. to 42s., and brown dust at 40s.

RHUBARB.—Quiet. Ten cases medium round horny High-dried with three-quarters fair pinky fracture and one-quarter dark sold at 7½d. per lb. The limit for good small to bold flat High-dried with three-quarters fair pinky fracture is 1s. 5d., and not quite so good is obtainable at 1s. 4d. Medium to bold Canton with three-quarters palish pinky fracture was limited at 2s. 6d., bold round pale-pinky Shensi at 2s., and pickings at 1s. 9d. Medium round and flat Shensi, partly stalky and with three-quarters pale pink fracture, was limited at from 2s. 9d. to 3s. per lb.

SARSAPARILLA.—Grey Jamaica was steady, eight bales fair fibrous selling at 1s. 10d. Of Honduras six crates (in prize) sold at 1s. per lb. for sea-damaged. Of twenty-five bales Mexican catalogued, twenty had been sold, and for the remaining five 1s. per lb. was wanted. Of native Jamaica ten bales offered and two sold at 1s. per lb., being steady.

SENNA.—Tinnevely leaf was steady, but pods were easier, the latter selling at from 4d. to 6½d. per lb. for ordinary to good palish, and 2½d. for badly sea-damaged. Medium to bold greenish leaf sold at from 6½d. to 7½d., good small

and medium greenish 4½d. to 5½d., and common to ordinary yellowish and sea-damaged 2½d. to 3½d. For practically whole green Alexandria leaf 3s. was wanted, and 1s. 6d. for siftings.

TONKA-BEANS.—A bid of 1s. 3d. is to be submitted for five cases of fair Para.

UVA URSI-LEAVES.—Three bales sold at 35s. per cwt. **WAX, BEES'**.—Jamaica was 2s. 6d. per cwt. dearer, twelve packages selling at from 8l. 10s. to 8l. 12s. 6d. per cwt. for fair red and brown mixed. Five bales of fair Mozambique block sold at 8l. 10s., and twenty-nine bags of East Indian had been sold privately. For bleached Calcutta from 8l. 12s. 6d. to 8l. 15s. was wanted. In Liverpool African is quoted at from 8l. to 8l. 10s. per cwt., as to quality.

German Drug and Chemical Markets.

The following notes chiefly refer to the Hamburg and Berlin markets under date of December 1, 2, 3, 1916:

AGAR-AGAR.—Commercial white strips have been sold at from m.33 to m.39 per kilo. It is expected, however, that further lots will shortly be imported, and lower prices will then be possible.

ASPHALTUM.—Small quantities of Cuban have been offered, but at such famine prices that the greater portion has remained unsold. Gilsonite has been sold at lower prices than Cuban asphalt. Trinidad Epuré is offered at rather low prices, and is expected to meet a ready sale. All sorts of asphalt-surrogates are offered, the better qualities of which are sold at rather high prices.

BALSAMS.—The demand for Peru, which has been very small for a long time, has revived, but it could not be entirely met; m.60 per kilo, has been paid.

CERESIN has been in good demand at advancing rates.

COUMARIN.—Makers have reduced the price from m.75 to m.60 per kilo.

RESINS.—Business is quiet in general, as prices are too high to permit of trading except in retail lots. Speculation is diminishing, because the authorities appeared to be disinclined to tolerate it further. *Amber oil* has been offered in rather large quantities at varying prices as to quality; the same has been the case with *Birch-tar oil*, the prices of which are too high. The demand for *Benzoin* has almost entirely fallen off. The demand for *Copal*, too, has diminished; sorts soluble in spirit have not been asked for, as spirit is unobtainable. *Copal-surrogates* are also offered now and then. Brown Manila copal is sold at the same price as American resin at present. *Elect. nuts*, soluble in spirit, are quoted at m.10, but meet with no buyers. Small lots, varying between 500 and 1,000 kilos., of Congo copal have been offered at from m.8 to m.9 per kilo., but no buyers could be found. *Damar* is still obtainable in very small lots, but at such extremely high prices that the demand has fallen off entirely. *Dragon's blood*, too, has been offered at such enormous prices that no business could be done. *Elemi* is quoted at prices twenty-fold those asked in the pre-war period. It is remarkable that elemi, which is rather neglected in normal times, is wanted now that prices are so abnormally high. *Galbanum* meets with no interest. *Norwegian Tars*, especially pale Tunca sorts, have been in active demand, but are quite cleared; Swedish is unobtainable; other darker sorts are still offered, and have been sold at high prices, which are still advancing. *Mastic* suddenly came into better demand at the end of November, and owners advanced prices immediately. Small quantities of *Myrrh* are still to be had, but the demand has fallen off. *Olibanum* is steadily advancing; the quotations are gradually approaching those for American resin. *Shellac* has been the favourite article of speculation, but this month speculators have not succeeded in bringing about a further advance. The regular wholesale trade has cleared its stocks, but certain industries, as well as speculators, appear to have rather large quantities at their disposal still. This became known, as at the end of the month there were reports that all stocks of shellac would be commandeered, which induced several owners to become anxious sellers, but prices only declined from m.¼ to m.½ per kilo. for TN, and lemony could be obtained at the same price as TN, or at from m.½ to m.1 higher. Whether the reports of commandeering are true or not cannot yet be said. *Sticklac* is entirely cleared. *Bleached shellac* is offered in very small lots, very ordinary quality being held at m.18 per kilo.

TARTARIC ACID has shown more activity, and consequently prices have advanced. Makers are unable to cope with the demand. The actual quotation for lead-free crystals is m.16.50 per kilo.

TERPENTINE OIL.—American is offered in small lots at really fantastic prices, at which there are no buyers. Pale Swedish has been bought at advancing prices, and remains active.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

"The Jack-boot."

SIR,—I am interested in Mr. Body's letter and rather puzzled by his attitude. He thinks the Leeds decision is "premature," "precipitate and ill-timed," but nevertheless "in other respects justifiable and extremely commendable"! How any course of action can be at the same time ill-timed and highly commendable is one of those things that "no fellow can understand." The assumption in Mr. Body's letter, as also in Mr. Sargeant's peripatetic preachments, is that the Pharmaceutical Council as at present constituted runs its affairs for the benefit of pharmacy, and that therefore it ought to be supported by every pharmacist. Is that so? I wonder if Mr. Body ever sees that lively little magazine "The Script—dispensed monthly," as it is whimsically headed. There are some things in the January issue that strike me as being worth Mr. Body's attention. They are written, not by outsiders, but by members of the Society like Mr. Body and myself—men who have not yet bowed the knee to Baal, and who call a spade a spade. What says "criticus"? "During the past three years, however, there has been a tremendous show of activity at the Society's headquarters, an amazing amount of bustle and hurry-and-scurry, very marked signs of hustle, and a most lamentable display of dodges and devices" which "have failed"; and "Criticus" advises the Pharmaceutical Committees to "decline to have any official connection with, or submit to any financial levy by, the Pharmaceutical Society." What says Mr. Arthur H. Jenkin? In N.H.I. negotiations "We resort too much to the methods of the 'Heathen Chinee,' only to find out too late, that it is a game we do not understand." Who are the people who use "dodges and devices" and "Heathen Chinee" tricks, if not the leaders of the Society? And this is the company to which Messrs. Sargeant and Body would compel every pharmacist in Great Britain to pay a guinea a year on pain of being regarded as a leper by his fellow pharmacists. Not until the Heathen Chinee dodge is given up can you expect men of sense to throw away good money after bad; and therefore Mr. Sargeant's resolution is not only ill-timed, but impertinent, and it deserves the fate that will ultimately befall it.

SOLOMAN. (167/59.)

Keeping Accounts.

SIR,—Allow me also to introduce myself to "Xrayser II.," as a chemist who keeps his books up to date. I devote half an hour each day, an extra couple of hours each month, and the evenings of one week every quarter to balance the accounts, a lady bookkeeper doing all the writing. My books consist of one ledger for the wholesale houses; two ledgers for my customers, a large and a small one; a day-book, and a cash-book which shows each day's cash as sales, monthly or quarterly accounts paid; and two petty-cash books; also a house-account book, showing details of all household expenditure—this is balanced weekly. The result is, I know at a glance my position at any time—i.e., amount spent on drugs, patents sundries, expenses of wages, carriages, postages, etc. The whole thing is perfectly simple, a matter of method and routine; but, from my experience of chemists' assistants for the last twenty years, if such are becoming the chemists of the day, then "Xrayser II.'s" remarks do not surprise me, for the training the majority receive (or rather don't receive) in small chemists' shops, plus a superficial knowledge obtained by a system of cram to pass the examination, though considered sufficient by the authorities of the Society, in my opinion only turns out "chemists or pharmacists" imperfectly educated scientifically and socially, and almost entirely untrained as business men, leaving them little better than the majority of the small shopkeepers with whom they are satisfied to associate.

X. Y. Z. (180/8.)

Chemists' Co-operation in Sales.

SIR,—"Andrew Crewdson" first grants the condition that he calls an "evil" (his word, not mine) and then drops into a vague but imposing generality. If, indeed, he is

qualified to advise upon retail questions, some exactness on his part would be of more service. The condition is not particularly confined to my district that I am aware of, so that he need not know the measure of my own business shortcomings to deal with the subject. If the overhauling and readjustment refer to the matters of canvassing and delivery, where we are now behindhand, there are two distinct reasons against any heavy embarking in these directions—firstly, that when we have done so we shall secure a portion of this business only, the competition holding; and, secondly, that the experience of country drapers is not happy in this respect, who have much larger possibilities of business than we have. No! The best business is that which comes to the counter. Now, at least I was not vague. I made a clear suggestion as to method—viz., the increased use of our selling facilities for a definite class of goods. Neither did I make any suggestion as to advertisers restricting sales to one class of traders. My suggestion was strictly confined to a method of self-help, already rapidly justifying itself. It was intended for fellow pharmacists, retailers being the only class of people from whom I have ever gathered much about retailing. But since the point is raised, the local history of a certain article occurs to me. Stocked first in my pharmacy, it caught on in the villages, and the village shops bought direct and spoiled the value of the article to me. My move was to pack a line of my own, and this still holds the field, and I think deserves to do so on its merits. After an interval of some years the original line reappears, this time in the very capable hands of a neighbouring pharmacist. Now, I think a pharmacist is entitled to ask, Why this return to a pharmaceutical channel? I think the only answer can be that pharmacists have special facilities that they may reasonably develop for themselves.

Yours truly,

COUNTRYMAN. (168/61.)

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Making a Dry-cell.

The remarks of our Birmingham correspondent last week (p. 38) that the making of refills for electric flash-lamps is "a useful hobby" has brought us several inquiries as to how it is done. Fortunately at the same time a subscriber has sent us the following account of the process, which we print because of the practical details that are given:

A "dry" cell—really a moist-cell—is a modification of the Leclanché cell, and can be made as follows: The sheet-zinc container may be of any size or shape. The zincs form the positive elements of the battery, and the negative elements consist of strips or rods of carbon, which are fitted with brass caps. Each carbon strip or rod must be very tightly packed into a small canvas cell with a paste composed of finely powdered carbon and manganese dioxide, of each 5 parts; sal ammoniac and chloride of zinc, of each 1 part; glycerin, $\frac{1}{2}$ part; water, 1 part. This cell, with its carbon, must be put in the centre of a zinc cell, which must then be nearly filled with a paste composed of one teaspoonful of flour dissolved in a solution of sal ammoniac, $\frac{1}{2}$ oz.; zinc chloride, $\frac{1}{2}$ oz.; glycerin, $\frac{1}{2}$ oz.; water, 4 oz. Rub the flour into a smooth paste first, then add the paste to the solution, and boil the whole together, pouring it while hot into the zinc cells, and allowing to get quite cold. In the bottom of each cell a small piece of cardboard should be placed for the canvas cell to rest on, and the cells should be sealed with a hot mixture of pitch, resin, and paraffin wax in equal parts, poured from an iron ladle. When the pitch seals have cooled hard, the seal of each cell must be pierced with a hot iron wire, in order to form vent-holes for the gases. A short piece of No. 24 copper wire must be soldered to each zinc cell. The zinc of No. 1 cell must be connected to the carbon of No. 2 cell by soldering the connecting wire to the brass cap of this cell, and the rest of the cells must be connected in a similar manner, thus leaving one carbon-cap at one end of the battery, and one wire from the zinc at the other end of the battery free for connection to the apparatus that is to be worked. The E.M.F. of each cell will be that of a wet Leclanché cell—namely, 1.6. A battery of this kind will not deteriorate by remaining idle, and will continue in working order until the charges in the cells are exhausted.

Legal Queries.

J. E. F. (180/20).—SALE OF BENZINE.—See *The Chemist and Druggist Diary*, 1917, p. 378.

Aq. Dest. (180/40).—Non-aërated distilled water is chargeable to table-water duty if it is sold or kept for sale as a beverage. The ruling of the Board of Customs and Excise on this point was printed in the *C. & D.*, July 15, 1916, p. 43.

Beehive (179/17).—EXEMPTED PERSON.—It by no means follows that you will be regarded as indispensable if you change your employment, notwithstanding that you might still be engaged in dispensing Insurance prescriptions. Some agreement seems to have been reached by which company chemists may transfer their assistants, but this is, we believe, hedged about by many conditions.

Visual (180/46).—(a) The Registration of Business Names Act, 1916, was fully referred to in the *C. & D.*, November 25, 1916, p. 53. Section 1 of the Act requires that if a person uses such a description as "The — Drug Co.," the business not being that of a limited company but his own business, the person must register in the manner directed by the Act. (b) You are liable for the acts of your employé committed by him in the course of his employment by you. We consider that you cannot rid yourself of responsibility in respect to the accident that you describe.

Puzzled (175/26) refers to the reply to "Shellac" (*C. & D.*, December, 23, p. 52), in which a deduction was shown allowed from an assessment of a house for income-tax, Schedule A (landlord's property-tax), under the head of rates, and he asks if he, as he lives in a house owned by himself, can also deduct his rates in the assessment of the house, these amounting to 13*l.* or 14*l.* per annum. "Shellac's" query showed a deduction under the head of rates, as given in the reply to his query, and this deduction was assumed to be a fact. The law in regard to what are commonly known as rates—that is, general district rate or the like—is that no deduction can be made in respect of them in the assessment to landlord's property-tax of the premises upon which such rates are paid. But an allowance from the assessment is made (under Section 60, No. V., sixth Rule of the Income-tax Act, 1842) in respect of any amount charged on tenements by a public rate or assessment in respect of draining, fencing, or embanking such tenements. And, under Section 38 of the Income-tax Act, 1853, an allowance is also made for certain tolls, commonly called "customs," levied in boroughs in Scotland under the authority of any Act of Parliament or burgh charter. "Puzzled" may be able to get relief under Section 101 of the 1842 Act, which allows a trader who uses part of his dwelling-house for business-purposes to charge a portion of the rent, not exceeding two-thirds, as a trade expense, if the facts justify this course.

Chemist (177/66).—INCOME-TAX INQUIRY.—Our subscriber puts the following questions: (1) Is the income-tax, for which the authorities are now sending out demand notes, for the year 1916 income? (2) Was there not a clause inserted in the Finance Act to the effect that incomes that had gone down (more than 10 per cent.) owing to the war were to be assessed on the one year's profits and income, and not on the three years' average; and does this clause apply to 1915 and 1916? (3) Can he claim to be assessed on the one year's basis for the years 1915 and 1916? (4) What is the cost of a copy of the Income-tax Act, and where is it obtainable? [(1) The demand notes now being sent out are in respect of income-tax for the year from April 6, 1916, to April 5, 1917. (2) Not exactly. The Finance Act, 1916 (Section 29), provides that if anyone has been charged to income-tax for the year 1916-17 and claims and proves that his actual income from all sources for the year of assessment is less by more than 10 per cent. than the income upon which he has been assessed and charged, he is entitled to repayment of such part of the income-tax paid by him as is equal to the difference between the amount of the tax so paid and the amount which would have been so paid if he had been assessed or charged on his actual income for the year of assessment. (3) This concession is confined to the current income-tax year; but, by Section 13 of the Finance Act, 1914 (Session 2), repayment may be obtained in like manner for the year 1914-15 where there was a diminution in the profits of the year due to the war; and this was continued for the following year, 1915-16, by Section 20 of the Finance Act, 1915. (4) The Finance Act, 1916, which imposes the income-tax for the current year, may be obtained, price 5*sd.* (including postage), from Wyman & Sons, Ltd., 29 Bream's Buildings, London, E.C. But there are many other Income-tax Acts in force passed since 1842, as to which see the *C. & D. Diary*, 1917, p. 218.]

Miscellaneous Inquiries.

A. G. (78/15).—The first thing to do with STICK LIQUORICE which has become damp and mouldy is to remove the mould if you can, then dry it very carefully in an oven, beginning at a temperature of about 80° to 100° F., and gradually raising the temperature until it is about 200° F. If you cannot get rid of the mould the best plan would be to utilise the liquorice in a cough-mixture or something of that nature.

I. P. (Para) (171/38).—TREATMENT OF ANKYLOSTOMIASIS.—We have at various times published information as to the treatment of ankylostomiasis, in which different remedies were recommended for the purpose of obliterating the hook-worm. A recent report on the public health of Jamaica contains the following conclusions as to the comparative efficacies of thymol, quassia, and chenopodium oil, which answer your inquiries: (1) Quassia is of very little, if of any, use against hook-worm; (2) thymol is not an ideal specific; (3) oil of chenopodium appears to be a very powerful anthelmintic, though further observations are still necessary to establish this point; (4) the best result is to be obtained by making use of both thymol and oil of chenopodium at a suitable interval; (5) the problem of total eradication of ankylostomiasis is, however, not one to be solved by drugs alone. The dose of oil of chenopodium is sixteen minims, given in two capsules, and followed in four hours by a dose of 2 oz. of castor oil. Thymol is given in doses of 5 gr. A good paper on the subject, quoted from "The Lancet," was given in the *C. & D.*, July 18, 1914, p. 34, which you should consult.

Iris Flor (168/67).—CUPRAMMONIUM SOLUTION.—The preparation of this solution, which is used in the manufacture of Willesden fabrics, was described some years ago by Dr. Alder Wright, although the manufacturing details were not given. Dr. Wright stated that in order to pectise paper thoroughly when the materials are passed through the baths at a convenient manufacturing speed it is essential to use a liquid containing 100 to 150 lb. of ammonia per 100 gals. (about as much ammonia as is present in solution of ammonia sp. gr. 0.940 to 0.960). Such a fluid, when nearly saturated with copper, present as pure cuprammonium hydroxide, will contain 20 lb. to 25 lb. copper (reckoned as metal) per 100 gals. Cardboard is built up by pressing together two sheets which have been passed through the cuprammonium solution and drying; from this two-ply board four- and eight-ply board is built up. The process was originally patented by Scoffern, but the patents have long since expired.

J. B. (162/24).—ANGOSTURA TONIC MIXTURE:

Tincture of angostura (1-5) ...	5j.
Compound tinct. of cardamoms	3ij.
Tincture of orange-peel ...	5j.
Chloroform-water to ...	Oj.

Dose: One tablespoonful two or three times a day.

H. J. (172/32).—PALENESS OF EGG-YOLKS is due to confinement and artificial feeding of the hens, these conditions predicated a deficiency of insects, worms, and green food. More freedom should be given, if possible, but in any case give green food, such as cabbage-leaves, ground raw bones, and a little oatmeal in the morning feed. The cabbage should not be thrown on the ground, but hung by a string from the top of the run. This treatment should not be overdone, or softness of the shell results.

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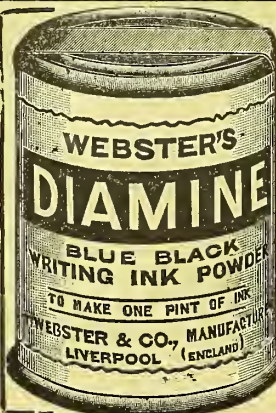
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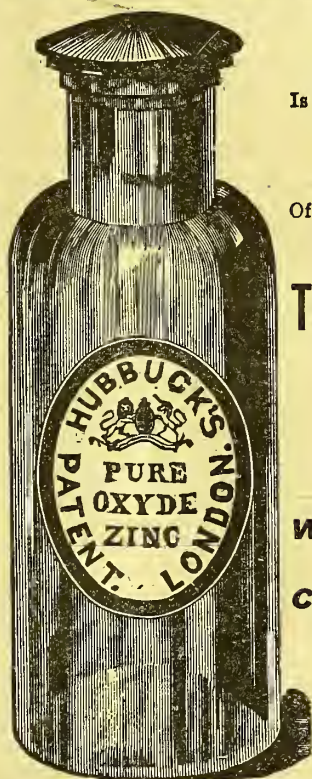
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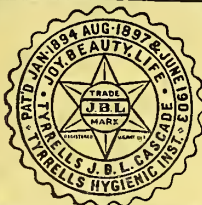
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 * " **Tolut**, P.B., 7 lbs. @ 10½d. lb.

Thymol, 1 lb. @ 38/6 lb.
Tinct. Auranti Recens., B.P., 5 lbs. @ 4/8 lb.; Aques, 11d. lb.
***Tinct. Belladon.**, B.P., 5 lbs. @ 5/1 lb.; Aques, 1/10 lb.
***Tinct. Benzoin Comp.**, P.B., 5 lbs. @ 4/10 lb.
***Tinct. Camph. Comp.**, P.B., 5 lbs. @ 3/3 lb.; Aques, 1/3 lb.
***Tinct. Cantharidis**, P.B., 5 lbs. @ 5/1 lb.
***Tinct. Capsic.**, B.P., 5 lbs. @ 3/5 lb.; Aques, 1/- lb.
***Tinct. Card. Comp.**, P.B., 5 lbs. @ 2/9½ lb.; Aques, 1/1 lb.
***Tinct. Catechu**, P.B., 5 lbs. @ 3/1½ lb.; Aques, 1/1 lb.
***Tinct. Chlorof. c. Morph.**, P.B., 1885, 5 lbs. @ 2/7 lb.

* **Tinct. Cinchon. Comp.**, B.P., 5 lbs. @ 3/10 lb.; Aques, 1/3 lb.
***Tinct. Cinchon. Rub.**, P.B., 5 lbs. @ 3/9 lb.; Aques, 1/3 lb.
***Tinct. Digitalis**, B.P., 5 lbs. @ 4/2 lb.; Aques, 1/3 lb.
***Tinct. Gelsem.**, P.B., 5 lbs. @ 3/7 lb.; Aques, 1/4 lb.
***Tinct. Gentiana Comp.**, B.P., 5 lbs. @ 2/7 lb.; Aques, 1/1 lb.
***Tinct. Hyoscyam.**, B.P., 5 lbs. @ 4/7 lb.; Aques, 1/10 lb.
***Tinct. Iod.**, B.P., 5 lbs. @ 5/9 lb.; **Forst.** @ 7/3 lb.; **decolor.**, 5 lbs. @ 5/10 lb.
***Tinct. Lavandula Comp.**, B.P., 5 lbs. @ 5/- lb.; Aques, 1/1 lb.
***Tinct. Myrrha**, B.P., 5 lbs. @ 4/10 lb.
***Tinct. Nucis Vom.**, B.P., 5 lbs. @ 3/10 lb.; Aques, 1/4 lb.

* **Tinct. Opil.**, B.P., 5 lbs. @ 6/2 lb.
***Tinct. Opil. Aques**, 5 lbs. @ 4/5 lb.
***Tinct. Quinina Amm.**, B.P., 5 lbs. @ 3/6 lb.
***Tinct. Rhel Co.**, B.P., 5 lbs. @ 2/7 lb.; Aques, 1/1 lb.
***Tinct. Scilla**, B.P., 5 lbs. @ 3/1 lb.; Aques, 11d. lb.
***Tinct. Senega**, P.B., 5 lbs. @ 3/10 lb.; Aques, 1/6½ lb.
***Tinct. Strobantib.**, P.B., 5 lbs. @ 4/8 lb.
***Tinct. Valeriana**, 5 lbs. @ 3/7 lb.; Aques, 1/2 lb.
***Tinct. Valeriana Ammon.**, P.B., 5 lbs. @ 4/- lb.; Aques, 1/4 lb.
***Tinct. Zingib.**, P.B., 5 lbs. @ 5/1 lb.
***Tinct. Zingib. Fortios.**, 5 lbs. @ 5/7 lb.
Ureacle (Black), 24 lbs. @ lb.
Turpentine (Best American), 1 gal. tins @ 5/9 each; **Venice**, Genuine, 9 lbs. @ 2/6 lb.

Ung. Acid. Boric, P.B., 28 lbs. @ 8½d. lb.; **Flav.**, 28 lbs. @ 6½d. lb.
 " **Acid. Carb.**, B.P., 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/6 lb.
 " **Galla**, P.B., 7 lbs. @ 1/6½ lb.; 1 lb. @ 1/9 lb.; c. Oplo, 7 lbs. @ 4/6 lb.
 " **Hydrargyri**, B.P., 28 lbs. @ 2/11 lb.; 7 lbs. @ 3/1 lb.
 " **Hydrarg. Ammon.**, B.P., 28 lbs. @ 1/7 lb.; 7 lbs. @ 1/9 lb.
 " **Hyd. Nit. Dil.**, 7 lbs. @ 1/8 lb.
 " **Paraff. Alb.**, P.B., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.; 1 lb. @ 1/- lb.; **Flav.**, 28 lbs. @ 6½d. lb.; 7 lbs. @ 8d. lb.
 " **Resina**, P.B., 28 lbs. @ 1/3 lb.; 7 lbs. @ 1/4 lb.
 " **Sulphuris**, B.P., 28 lbs. @ 1/2½ lb.; 7 lbs. @ 1/3½ lb.
 " **Zinc Oxid. Benz.**, B.P., 28 lbs. @ 1/3 lb.

Wax, Japan, 2 cwt. @ 82/6 cwt.; 7 lbs. @ 10d. lb.

Zinc Oleat. Powdes, B.P.C., 7 lbs. @ 3/- lb.
Zinc Oxid., 1 cwt. @ 95/- cwt.; 28 lbs. @ 11d. lb.; 7 lbs. @ 1/- lb.
 " **Sulph. pure**, 1 cwt. @ 50/- cwt.; 28 lbs. @ 6½d. lb.
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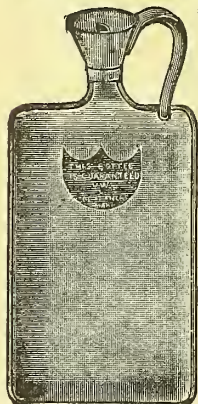
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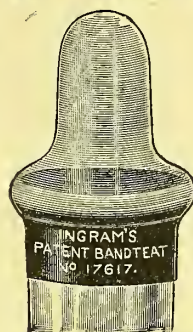
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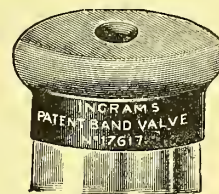


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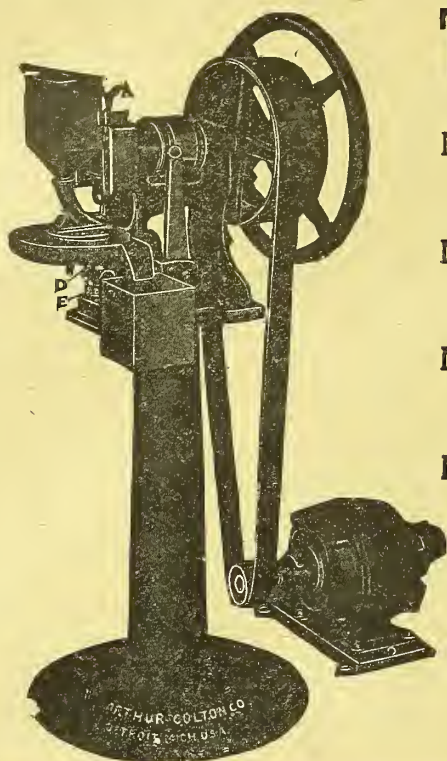
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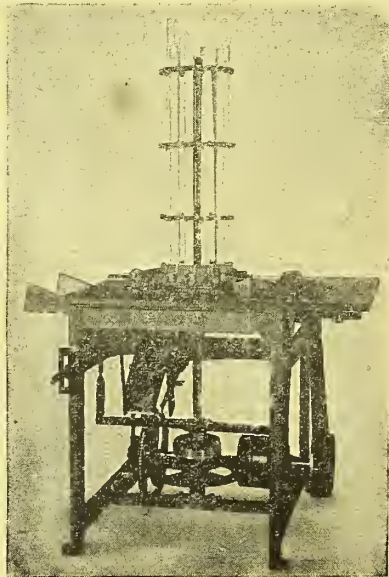
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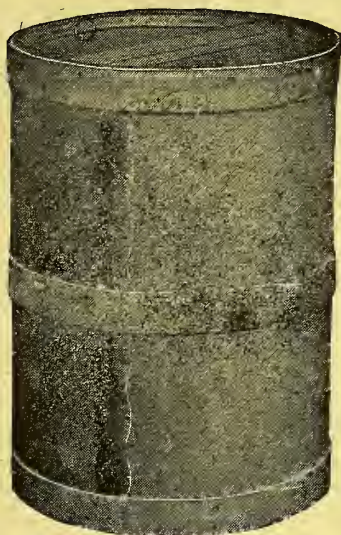
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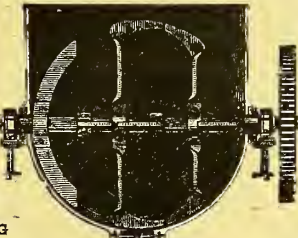
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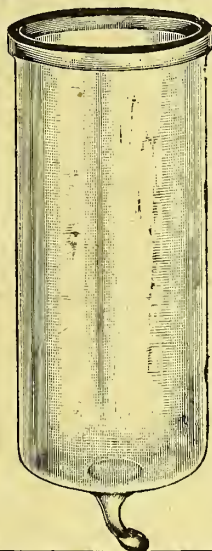
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		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Heavy weight each	3 2	3 5	3 8	3 11	4 3	4 10	5 2	5 9
Light "	3 0	3 3	3 6	3 9	4 0	4 6	4 9	5 3
Covers, scarlet or grey plush	..	0 9	0 9	0 11	0 11	1 1	1 3	1 5	1 7

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OUR GOODS ARE RIGHT.

MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.,

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.

Since 1780 we have been continuously associated with the handling of Drugs and the manufacture of Pharmaceutical Preparations, and during the past three-quarters of a century or more have specialised in the production of ALKALOIDS, ANÆSTHETICS, ANTISEPTIC LISTERIAN and other SURGICAL DRESSINGS. Undernoted is a list of some of the articles which we can offer to advantage:—



Morphine

Codeine

Apomorphine

Aceto-Morphine
(Heroin)Ethyl-Morphine
(Dionin)Cotarnine
(Stypticin)

Narcotine

Papaverine

Berberine

Emetine

Homatropine

Hydrastine

Strychnine

Veratrine

Chloroform & Ether

of highest possible purity,
for Anæsthesia.

Surgical Dressings

in which uniformity of
medication is
guaranteed.

Surgical Catgut

in every form. Specially
selected and tested.

Aloin

Caulophyllin

Cimicifugin

Chrysarobin

Euonymin

Hamamelin

Iridin

Leptandrin

Podophyllin

Salicin

Scammony

Resin

Spirituos

Galenicals

in bond

For Wholesale and Export only.

J. F. MACFARLAN & CO

Manufacturing
Chemists :: :: Edinburgh & London.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JANUARY 13, 1917

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done.

PROVIDED THE MONEY IS TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'

Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—PICCADILLY (Near).—For immediate Disposal, high-class Dispensing and Retail Business; returns about £1,200; *gross profit between £650 and £700*; the business is known to us, and we can recommend it: valuation terms.

2.—LONDON, S.W.—Very old-established Business, held by vendor many years, now retiring; returns between £850 and £900; *profit above the average*; first reasonable offer will be accepted.

3.—LONDON, S.E. (Market Thoroughfare).—For immediate Sale through death of late owner, ready-money Retail; turnover about £700 per annum, plus N.H.I. Dispensing; about the valuation of stock and fixtures required.

4.—LONDON (Northern Suburb).—Brisk Ready-money Retail Business, situate in busy main thoroughfare; returns under management £1,400 to £1,500; terms, £200 on entry and £175 by instalments.

5.—KENT (Suburban).—Well-established Business, Retail and Dispensing; returns £900; *net profit about £250*; full investigation is invited; price £275 on entry and £175 by instalments to meet buyer's requirements.

6.—LONDON, S.W.—Established Business, Retail and Dispensing, held by vendor many years; returns £1,000 yearly; *profits above the average of Retail trade*; capital opening for modern trading; terms, value of stock and fixtures.

7.—LONDON, N.W.—Ready-money Retail, including small Syphon-filling plant; returns average £500, at good prices; double-fronted shop, corner position; rent moderate; held on lease; no immediate opposition; offer wanted.

8.—CARDIFF.—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

9.—S.W. OF ENGLAND.—Thoroughly sound Retail, together with Wines and Spirits; returns about £1,600; price £50 and valuation of stock and fixtures; good-sized house, with garden attached.

10.—SOUTH COAST.—Good middle-class Retail, Dispensing, and Photo Sundries; situate in main road in chief business centre; returns between £1,000 and £1,100; *net profit exceeds £350*; attractive shop and large residence; price £750.

11.—BIRMINGHAM.—Retail and Dispensing Business, established many years; returns under management about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly; satisfactory reason for disposal; valuation terms entertained.

12.—BRISTOL CHANNEL.—Old-established Business, Retail, Dispensing, and Agricultural; situate in best position in good market town; returns about £1,700; about £1,000 required, for which full value is offered.

13.—WEST OF ENGLAND (Health Resort).—Select, good-class Business, admitting of extension; returns about £1,400; well-stocked shop and good house, on lease; price £1,200.

14.—KENT (A Few Miles Ont).—Good-class Business, Retail and Dispensing; returns £700; *net profit about one-third*; roomy house, with garden and side entrance; price £450.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

PARSON C. BAKER

(Pharmaceutical Chemist),

Trade Valuer & Transfer Agent.

Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.
Valuer to the Association of Manufacturing Chemists.
1 Mountfield Road, CHURCH END, FINCHLEY, N.
 Tel. No.: Finchley 812.

THOS. TOMLINSON & SON

**CHEMISTS' VALUERS, TRANSFER AGENTS,
 AND EXPERT STOCKTAKERS.**
45a MARKET STREET, MANCHESTER.
ESTABLISHED OVER HALF A CENTURY.
Telegraphic Address: "Tomtom."

BATTAM & HEYWOOD

(ESTD. 1837.)

**CHEMISTS' VALUERS, TRANSFER AGENTS,
 AND EXPERT STOCKTAKERS.**
Balance Sheets Prepared. Books Audited.
3 DAVIES STREET, BERKELEY SQUARE, W.
Telephone: GERRARD 2169.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,
35 Jewry Street, Fenchurch Street, City.
Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required, about £700; part can remain; personally inspected and recommended.

2.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £300 clear; large house and garden; stock worth £650; price £700.

3.—MIDLANDS (Death Vacancy).—Light Family Retail and Agricultural, in pleasant market town; easy hours; returns £900; net profit £300; good opening for Photo and Optics; one other Chemist; price £425, or first reasonable offer.

4.—SOMERSET.—Light Retail Business, in good market town; owner retiring through ill-health; returns £500; plenty of scope; net profit £200; price simply valuation, about £300.

5.—SUSSEX COAST.—Well-established Light Retail, Dispensing, and Prescribing Business in rising seaside resort; returns about £650; good profits; splendid house; attractive Pharmacy; price only £250; worth attention.

6.—LONDON (Western Suburb).—Profitable Cash Retail; no immediate opposition; present returns average over £20 weekly; net profit about a third; owner, joining up, will accept about £150 for quick sale.

7.—LONDON, N.W.—Good middle-class Retail; no Panel or Poisons sold; returns £600; net profit about half; low rent; lock-up shop, double-front and handsomely fitted; price £275; trial allowed.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 90 of the *C. & D. Diary*, 1917.

Have you read it?

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BUCKS (35 miles London).—Drugs, Stationery, and Photographic Stores; splendid opportunity; low rent; done well under management; valuation only; splendid district. Apply, Bendy, Bridge Street, Leighton Buzzard.

DEVON Seaport.—Light Retail, Dispensing, Prescribing, and Photographic; main road; long lease; old-established; opening for Dentistry; valuation stock and fixtures. 96/22, Office of this Paper.

NEAR Liverpool. — In wealthy residential neighbourhood, beautifully situated, an exceptionally profitable, high-class Dispensing business; returns £1,300 or more; this could be considerably increased by Photography or high-class goods, which proprietor has not desired nor encouraged; only reason for disposal, proprietor wishes to retire from business altogether; fine house and garden; no opposition near; proprietor would be willing for successor to act as Assistant until a thorough knowledge of customers and style of working has been gained; no agents; only bona-fide buyers with satisfactory references will be replied to. 180/66, Office of this Paper.

PORTSMOUTH.—Old-established Retail and Dispensing Business in main thoroughfare, carried on by the late Mr. John Stanswood for over 50 years; good opening for Chemist; immediate possession; stock and fixtures at valuation; rent £40. For full particulars apply to Mrs. J. Stanswood, 277 Commercial Road, Portsmouth.

DRUG Stores, in thickly populated middle and working class neighbourhood; no opposition; over £500 a year under unqualified and inexperienced female; profits over 50 per cent.; rent, including three rooms, scullery, and yard, only 15s.; very little Proprietaries, which do not include the above takings; could be easily doubled under experienced management; genuine bargain; price £120, or very near cash offer for stock, fixtures, and fittings and nearly new Cash Register costing £27; chemical balance, etc.; Dispensing needed; could sell Fancy Goods. Allen, 53 White Horse Lane, London, E.

FOR Sale, at valuation, Drug Stores in Lancashire, 10 miles from Manchester; Wholesale and Retail; doing over £40 a week under unqualified; easily managed; easy rent; population 15,000; established 21 years, same hands; proprietor retiring from business. Apply, "Genuine" (94/30), Office of this Paper.

FOR Sale, the old-established Chemist and Druggist's Business carried on by the late Mr. Andrew Lawson at No. 65 Perth Road, Dundee. For particulars apply to Andrew Hendry & Sons, Solicitors, 39 Murraygate, Dundee.

HIGH-CLASS Dispensing Business for Sale; turnover £1,420; gross profit £650; best immediate cash offer will be accepted; military reasons for sale. 184/29, Office of this Paper.

MARKET TOWN, Hampshire.—Owing to Difficulty in Obtaining Trustworthy Manager.—Handsomely-fitted, good-class Pharmacy for Sale; returns £1,500 under management; large premises, suitable for big business; short hours; no Sunday duty; practically no N.H.I.; good house; about £1,000; valuation terms entertained; no Agents. 176/480, Office of this Paper.

OLD-ESTABLISHED Chemist's and Druggist's Business in thickly populated district of Manchester for Sale through death of owner; well-known Recipes included; double-fronted shop; good living accommodation at low rental; ingoing about £350; immediate possession. For further particulars apply, Mellors, Basden & Mellors, Chartered Accountants, Nottingham.

OLD-ESTABLISHED Business in good-class residential neighbourhood, run of late years as a Branch, returning at present £11 per week, for Disposal; active Partner or Manager with view to succession entertained. Apply, 98/1, Office of this Paper.

PHARMACIST, retiring, desires to sell privately long-established Business, General Retail and best-class Dispensing; good position within 44 miles S.W. of London; preference to buyers making personal inspection; early or deferred succession to suit purchaser; good Dispensing charges, N.H.I. nil; favourable lease extension available. "Myopia" (97/38), Office of this Paper.

SALES BY AUCTION.

TO MINERAL-WATER MANUFACTURERS AND OTHERS.

WHITE BROS. (LONDON), LTD., Mineral-water Manufacturers, etc., **VICTORIA STREET, STRATFORD, E.** (two minutes of Stratford Town Hall).

MODERN PLANT AND MACHINERY (by well-known makers), **STOCK and UTENSILS of TRADE**, comprising Soda-water Cylinders, 3 Power Rotary Mineral-water and Syphon Fillers, Power Sugar Mixer, Washing Machines, Copper Pans, Vats, quantity of Pure Block Tin Piping, various tanks, motors, boiler, shafting, etc.,

LARGE STOCK OF ESSENCE,

Sugar, Saccharin, 7,000 doz. Bottles, Stoppers, 7,000 Cases and Boxes, 900 doz. Syphons, 10,000 Jars, Enamelled and other Pans.

SIXTEEN VAN HORSES,

12 single-horse Vans, Harness, Power Chaff-cutter, Office Furniture, etc.

LEOPOLD FARMER & SONS (having disposed of the factory property) will **SELL** the above by **AUCTION**, in lots on the premises, on **WEDNESDAY, 24th JANUARY, 1917**, and following day, at 12.

On view day prior and morning of sale. Catalogues of the Auctioneers and Factory Specialists, 46 Gresham Street, E.C., and Kilburn, N.W.

TENDERS.

THE COMMISSIONERS of **H.M. CUSTOMS and EXCISE** invite **TENDERS** for the **PURCHASE** of **839 lbs. of PERSIAN OPIUM** of average quality lying at Glasgow.

Sale is limited to holders of permits to buy opium in the United Kingdom, granted under Regulation 40b of the Defence of the Realm Regulations, and is conditional on:—

- (1) Compliance with the existing Departmental regulations;
- (2) Payment in full before delivery and removal within three clear days of intimation of availability for collection;
- (3) Endorsement of the purchaser's permit with the quantity purchased.

Facilities for inspection will be accorded on application to the Collector of Customs and Excise, Custom House, Glasgow.

Tenders, marked "Tender No. 9," and addressed to The Secretary (Room 84), Custom House, London, E.C., must be received by noon on the 24th instant.

The Commissioners do not bind themselves to accept the highest or any tender.

AGENCIES.

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IMPORTANT TO LONDON AND SCOTCH FIRMS
REQUIRING REPRESENTATION IN THE MID-
LANDS TO COVER GROUND PREVIOUSLY
WORKED BY TRAVELLERS.

MANCHESTER distributing house is open to accept one or more additional Sole Agencies. Clientèle Wholesale and Retail, Chemists, Doctors, and public. Such Agencies would receive benefit of existing facilities and machinery; Wholesale warehouse, showroom, circular-letter campaign department, and services of efficient representatives. Apply, 169/48, Office of this Paper.

REPRESENTATIVE wanted to take up with other lines the sale of a well-established Toilet Article, to call on Chemists, Perfumers, Hairdressers, and Stores in the provinces; liberal terms. Write to 96/34, Office of this Paper.

SOAP and Perfume house require Representatives who are already working home grounds to carry samples on basis of commission with contribution towards expenses; only first-rate men will be considered by advertisers, who are house of high repute. Full particulars, in strict confidence. Apply, 169/480, Office of this Paper.

BUSINESSES WANTED.

BUSINESS wanted, London or Suburbs; returns £800 to £1,500. Particulars, in confidence, to "Riga" (97/23), Office of this Paper.

WANTED, Business, London; returns £500 to £1,000; part cash down, remainder by 12 monthly instalments. Reply, "Pharmacist" (93/12), Office of this Paper.

FOR SALE.

BEST offers for 6 lb. Pot. Permang., 4 lb. Pot. Pruss. Flav., 14 lb. Camphor Cubes, 1 oz., 14 lb. Camphor Flor., 2 wrs. Acid. Carb. Liq., 1½ lb. Violet Aniline Pre-war. Lever, 107 Leicester Road, Broughton Park, Manchester.

BOTTLES for Sale, 5 gross 4-oz. Flat White Glass Bottles, glass stopper with cork ring. Offers to Borlase, Field & Co., 18 Powis Terrace, Bayswater, W.

RECEIPT-PRINTING National Cash Register, second-hand, for Sale; great bargain for immediate purchaser. Write at once to F. Harding, 31 Fisher's Lane, High Road, Chiswick, W.

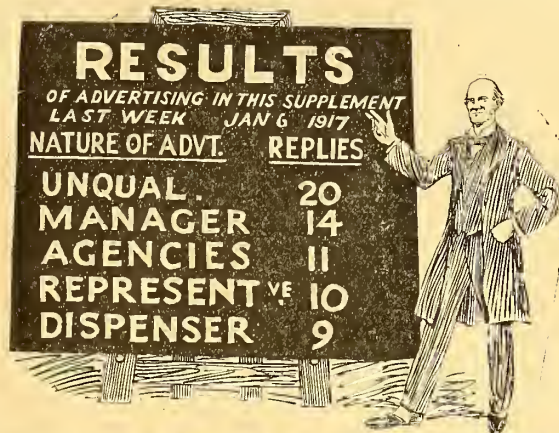
VERMIJELLI Verm'n Destroyer, 1 cask 200 lb., 1 cask 112 lb., 1 cask 45 lb., 50s. cwt. for whole or part. Timothy White Co., Ltd., Portsmouth.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

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This Blackboard demonstrates that Advertisers using these columns get a really response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de pume.

RETAIL.

BATH.—Assistant wanted, qualified or unqualified, for good-class Dispensing business; ineligible for military service if male; good experience essential. State particulars as to age, experience, and salary in first letter to John Hawes, 37 St. James's Square, Bath.

BLACKPOOL.—Manager wanted for old-established Pharmacy; salary and percentage of profits with future interest to capable man. All particulars to John Potter, F.S.A.A., 34 Birley Street, Blackpool.

BRIGHTON.—Wanted, by end of January, for Dispensing and good Retail business, competent Assistant, lady or ineligible; outdoors. Apply, with full particulars and salary required, to John Miller, 4 Victoria Road, Brighton.

BRIGHTON.—Competent Assistant (ineligible for military service), qualified or unqualified, for good-class Retail and Dispensing business. Please give usual particulars in first letter, Parris & Greening, 16 Western Road, Hove.

BYFLEET.—Two lady Assistants required, one for Dispensing, the other for Counter and Stock; high-class business in delightful country residential neighbourhood. All particulars should be given in first letter, S. Browning Moss, West Byfleet.

CAMBRIDGE.—Lady or ineligible man Assistant; previous business experience not necessary; outdoors; no Sunday or holiday duty; early closing. Apply, Mr. David Sturton, c/o R. Sturton & Son, Pharmacists, 7 Fitzroy Street, Cambridge.

CHATHAM.—Assistant wanted (outdoors), beginning of February; knowledge of Dispensing and Retail; lady or gentleman. State age, height, experience, salary required, photo if possible, Freeman, Chemist, Chatham.

CHELTHENHAM.—Competent Assistant required for Dispensing business; outdoors. Full particulars to Nathl. Smith & Co., 373 High Street, Cheltenham.

DONCASTER.—Wanted, a qualified lady Pharmacist for good-class business; good knowledge of Dispensing, with experience at the Counter; moderate hours; outdoors. Apply, with full particulars of experiences and stating salary required, to Walter E. Plant, Pharmaceutical Chemist, 28 High Street, Doncaster.

DURHAM COUNTY ASYLUM.—Wanted, a qualified lady Dispenser, and to assist with clerical work; the appointment will be subject to the provisions of the Asylum Officers' Superannuation Act, 1909; salary £40 per annum, with board, lodging, and laundry. Applications, in writing, to be addressed The Medical Superintendent, Winterton, Ferryhill.

HANTS.—Manager; qualified; Market town; smart business builder; knowledge of Farmers' requirements; Prescribing Photography, some Optics and Dentistry useful, not essential short hours, no Sunday duty. Full particulars as to age, experience, if married what family, salary required (on or off premises), when disengaged, references, photo, 176/48, Office of this Paper.

HALIFAX.—Wanted, unqualified Assistant, ineligible for the Army, able to take charge; must be a good Salesman and Window-dresser; short hours and no Sunday or holiday duty; a good permanent berth for a capable man. Apply, stating age, height, salary required, with recent references, Taylors (Northern) Ltd., 4 Crown Street, Halifax.

LEAMINGTON SPA.—Provident Dispensary will require services of qualified lady Dispenser from March 31; salary £60, with furnished rooms (on premises), coal, gas, attendance; hours 9 till 12 and 3 till 7. Applications, stating age, qualifications, experience, copies recent testimonials, on or before January 31, to Secretary, Provident Dispensary, Leamington.

LONDON.—Lady Assistant, or gentleman ineligible for military service, with Dispensing experience. Apply, giving full particulars as to age, experience, and salary required (outdoors), Greenish, 20 New Street, Dorset Square, N.W.

LONDON District.—Unqualified Assistant, age about 46, required for Light Retail and Dispensing business; permanency to a suitable man. "G." (94/263), Office of this Paper.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

LONDON, N.—Assistant (ineligible for military service) wanted for Counter; also young lady wanted for shop; reasonable hours. Please state age, experience, references, salary required, and when disengaged in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, London, N.

LONDON, N.—Wanted, an Assistant at once, chiefly for light Dispensing; outdoors; lady with good knowledge of Dispensing would suit. Apply, G. E. Savage, Crouch End, N.

LONDON, S.E.—Wanted, Assistant, unqualified (ineligible for military service), for Dispensing and Light Retail business. Apply, with full particulars, salary required, etc., to 98/16, Office of this Paper.

LONDON, S.W.—Capable Assistant required (outdoors); Photographic, Counter, and N.H.I. work. Salary and references to Owen, 260 Upper Tooting Road, S.W.

LONDON, S.W.—Capable Assistant (outdoors), unqualified; must be ineligible; preference given to one discharged from Army; medium-class Cash business; reasonable hours and comfortable berth to competent man; full day off weekly; good references essential. Please state age, height, and salary required, Skues, 14 The Parade, Upper Tooting Road, S.W.

LONDON, S.W.—An Assistant of good Dispensing experience required at once. Apply to Plaister & Co., 13 Gledhow Terrace, Old Brompton Road, S.W.

LONDON, S.W.—Wanted, smart Assistant for the Patents and Drug Counter; short hours; no Sunday duty. Personal application preferred, or full particulars to Manager, Drug Department, Francis & Son, Ltd., 448 Brixton Road, S.W.

LONDON, W.—Wanted immediately, a lady Assistant, part time. Apply, personally or by letter, to "G. G. H.," c/o Hogg & Sons, 1 Southwick Street, Hyde Park.

LONDON, W.C.—Required at once, a qualified Junior Assistant (also one unqualified) for good-class Retail and Dispensing business. Apply, 100/10, Office of this Paper.

LUDLOW.—Wanted at once, capable outdoor Assistant in good-class country business; unqualified; ineligible; easy hours; half-day weekly; no Sunday; salary 50s. Enclose reference and usual particulars, Woodhouse & Son, Bull Ring, Ludlow, Salop.

MANCHESTER District.—Wanted, unqualified Assistant, ineligible for Army, capable of Dispensing N.H.I. Prescriptions; must be smart and a willing worker and good Salesman; hours of business 9 to 8 Monday, Wednesday, Thursday and Friday, Tuesday 9 to 1; Saturday 9 to 9. State age, experience, and salary required, 90/22, Office of this Paper.

MARGATE.—Assistant for good-class Retail and Dispensing; permanency if suitable. Apply, stating previous experience, age, height, salary required (outdoors), to D. T. Evans, Farningham Lodge, Margate.

ORMSKIRK near Liverpool.—Wanted immediately, smart gentleman or lady Assistant; unqualified; outdoors; good salary. Apply to Garside's, Ltd., Dispensing Chemists, Ormskirk.

PARISH of Liverpool.—The Select Vestry require the services of fully-qualified Dispensers; if men, applicants must be over military age or unfit for military duty. Applications, stating age and qualifications, to be sent forthwith to the Clerk to the Select Vestry, Parish Offices, Brownlow Hill, Liverpool.

SHREWSBURY.—Assistant (outdoors); lady with good knowledge of Dispensing would suit; short hours; no Sunday work. Please give full particulars of experience and salary required in first letter. Apply, A. Williams, Chemist, Castle Street, Shrewsbury.

SOUTH OF ENGLAND.—Assistant required; free removal; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SOUTH WALES.—Smart qualified Manager required for business situate not far from Cardiff; must be a capable Dispenser and good Counterman; good salary and interest in the profits offered to suitable man. "S. W." (94/260), Office of this Paper.

STRATFORD-ON-AVON.—Qualified Assistant (outdoors); ineligible; good-class Dispensing and Family trade; should be well versed in N.H.I. details. Loggin, Chemist, Stratford-on-Avon.

TREHARRIS.—Wanted, Assistant, male (ineligible) or female, married or single, qualified or unqualified, for country business and N.H.I. work; open to consider part interest or sale if preferred. Give full particulars in first letter to T. Thomas, Chemist, Treharris.

WINCHESTER.—Junior lady Assistant (or Improver); outdoors; some Dispensing experience essential; moderate hours; no Sunday or holiday duty. State salary required and particulars of experience, and enclose photo, Eldred & Inge, Chemists, Winchester.

YORKSHIRE.—Young lady who has had experience at the Counter, and some Dispensing, required for a quick Cash business in colliery district; comfortable and permanent berth. "Yorks" (94/262), Office of this Paper.

LADY Assistant required, to take charge of small Branch business in a seaside resort. Apply, giving all particulars, to 98/21, Office of this Paper.

A THOROUGHLY competent Assistant wanted for good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W. (opposite West Kensington Station).

ASSISTANT; Surgical Instrument business; competent man of good character for front shop. Address, stating age, duties accustomed to, and wages expected, 70/11, Office of this Paper.

ASSISTANT wanted for country Retail, ineligible or discharged from Army; easy hours; no duty. Full particulars of age, experience, references, salary required, and if possible photo, to Steedman, Chemist, Beverley, E. Yorks.

AT Once.—Qualified Assistant for Dispensing and Light Retail business; good salary to smart man; permanency. State age, experience, etc., to W. E. Matthews, Ltd., 3 George Street, Croydon.

CHEMISTRY.—Qualified Assistant required (male or female), used to first-class business, for Dispensing duties only; hours 8 to 6; no Sunday duty; permanency; good prospects. State age, commencing salary required, and particulars of present engagement to Junior Army and Navy Stores, Ltd., Union Street, Aldershot.

DISPENSER wanted immediately (outdoors); one accustomed to good-class business; good salary to suitable man. Apply by letter to John Atkins, Chemist, 109 Queen's Road, Baywater, W.

HALL qualified and also qualified Chemist, male or female both cases; nice, easy and comfortable berth, but must be able and accurate Dispenser. "Blackburn" (98/22), Office of this Paper.

LADY Assistant; must be a good Dispenser and have had some Counter experience; high-class business, situate at a Midland health resort; comfortable permanency. 94/261, Office of this Paper.

LADY Dispenser and Bookkeeper wanted; Northern County; preference given to trained Nurse. Address, stating salary required, to 98/23, Office of this Paper.

LADY Assistant wanted, good Dispenser, for good-class Pharmacy in Suffolk. State age, salary required, and when disengaged, 98/4, Office of this Paper.

LEWIS & BURROWS have a vacancy for a good all-round Assistant; also for a competent lady Dispenser. Apply, with full particulars, to 146 Holborn Bars, E.C.

MANAGER for Branch shop in London district; fair amount of N.H. Insurance Dispensing; comfortable berth and permanency to suitable man; lock-up shop, or residence over business could be arranged; full-time Manager preferred, but if elderly or for other reasons part-time could be arranged. Apply, 98/2, Office of this Paper.

MANAGER required at once, lady or gentleman. Apply, Frost, Chemist, Portswood, Southampton.

MESSRS. COOPER, SON & CO., LTD., require a qualified Assistant as Dispenser. Give full particulars to "A. J. B. C.," 80 Gloucester Road, South Kensington, S.W.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

PART-TIME Assistant wanted; ineligible; Retail Dispensing and Photographic business. Enness, Pharmacist, 91 High Street, Wandsworth, S.W.

PART-TIME Assistant two or three (2 or 3) afternoons and evenings a week as mutually arranged; suit student or middle-aged gentleman. Apply, T. Byass-Jones, 331 West Green Road, Harringay, N.

QUALIFIED Assistant, lady or gentleman (ineligible), for good-class business in South Coast health resort. Apply, giving full particulars as to age, experience, and salary required (outdoors), "H." (92/5), Office of this Paper.

QUALIFIED Chemist for Dispensing, Agricultural, and all-round country business; must be ineligible; state terms and references. Apply, A. E. Churchyard, Harleston, Norfolk.

QUALIFIED lady or gentleman to assist in small business. Apply, with full particulars as to wages, etc., 97/29, Office of this Paper.

UNQUALIFIED Assistant; one able to take charge if required. Apply, by letter, "G. B.," 77 Walworth Road, London, S.E.

UNQUALIFIED Assistant; ineligible or above military age; must have had good Photographic experience; progressive berth; Midland city; permanency. "Photo" (94/26), Office of this Paper.

UNQUALIFIED Assistant required in an Agricultural and Dispensing business in the Eastern Counties. Apply, with full particulars of age, experience, and salary required, to 97/10, Office of this Paper.

UNQUALIFIED Assistant, female or ineligible male, chiefly for Dispensing; applicants whose experience has been limited solely to Dispensing for Doctors or Institutions are not suitable; state particulars and salary required in first letter. Apply, 97/3, Office of this Paper.

WANTED, qualified Manager for small Pharmacy in country, near Derby; applicants must be thoroughly reliable and energetic; outdoors; no N.H.I. Dispensing; short hours and no Sunday duty; good Prescriber and Stockkeeper. Apply, 96/37, Office of this Paper.

WANTED, lady Dispenser (February 1); Panel and private; morning and evening; live out. Hanbury, 157 Roman Road, Bow, E.

WANTED, a lady Dispenser for good-class Chemist's shop. State terms and experience, 98/400, Office of this Paper.

WANTED, an Assistant for every Thursday, alternate Sundays from 6 to 9 p.m. Apply, Lloyd, 267 King's Road, Chelsea, S.W.

WANTED, Assistant, qualified or unqualified, for good-class Dispensing business; must be ineligible for military service. Apply, stating salary required (outdoors) and usual particulars, photo, to Shelley Richards, Pharmacist, Weymouth.

WANTED, Manager for Drug Stores; Minor qualification; definitely ineligible; responsible position; good salary to competent man; London, S.E. Apply, with full particulars and copies of recent references, to 99/32, Office of this Paper.

WANTED at once a Junior (ineligible for military service), accustomed to making and putting up Counter Stock and Specialities; short hours and no Sunday duty. Apply, stating age and experience, Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C.

WANTED at once, two lady Assistants with Hall qualifications and some business experience; short hours and no Sunday duty. Apply, stating usual particulars, to the Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C.

WANTED, a smart, reliable, qualified Assistant; outdoors; good salary for suitable man. Apply, with full particulars, salary required, experience, etc., to T. Johns, Chemist, 73 High Street, Gravesend.

WANTED, Stockkeeper, accustomed to put up Toilet Preparations, despatch and receive goods, etc.; good wages to suitable man. Apply, Munro & Co., 273 Regent Street.

WHOLESALE.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

A GOOD opening for man occurs in Manufacturing Department of Midland business, with practical knowledge of Drug trade; good references required; state experience and age. Apply, 183/57, Office of this Paper.

A LONDON firm manufacturing Jams, Essences, and Confectionery, requires a young man with some Chemical knowledge. Apply, by letter, to 180/32, Office of this Paper.

ALLEN & HANBURY, LTD., Bethnal Green, E., require an intelligent young man or young woman for their Order Department; must be able to read readily varied Drug orders and be a quick and accurate worker. Applications, in own handwriting, stating age, experience, and salary required, to "F. L. D."

EUCALYPTUS Oil Trade.—Wanted, to get in touch with gentleman having knowledge of and connection with large users, who could assist in marketing the product of an important Australian distiller. Address, "Eucalyptus" (134/30), Office of this Paper.

FOREWOMAN wanted at once, accustomed to the supervision of female labour, bottling and Capping Perfumes, Toilet Requisites, and Packing Medicines in small bottles; must be forceful and a good organiser; good wages to the right person; references must be satisfactory. Apply, 93/18, Office of this Paper.

GIRL wanted for Wrapping and Packing Powders in the Chemist trade by large house in the West End. Apply, stating full particulars of past experience and salary required, etc., to L. J. 1343, Sell's Advertising Offices, Fleet Street, E.C.

GOOD Assistants wanted for Wet Room; also reliable, experienced man to take charge of Bottle-washing Department; latter must be familiar with Druggists' Glass and Stone Ware and able to keep stock; good wages. Apply, with full particulars, to Goodall, Backhouse & Co., Leeds.

HEAD Laboratory Assistant required at once (permanency) by an old-established Drug house; experienced in the Manufacture of B.P. preparations, Ointments, etc.; state experience and wages required. Apply, 96/31, Office of this Paper.

INVOICE Clerk, used to Pricing, over military age or ineligible; married preferred; good salary to a man who is competent and experienced. Reply, with full particulars and salary required, to be marked "Private," and address to Governing Director, Randall & Son, Wholesale Druggists, Southampton.

MANAGER or Manageress; Surgical Appliances; thoroughly capable business person; good berth in first-class house. 180/1, Office of this Paper.

PATENT-MEDICINE Department of Provincial Wholesale House.—Forewoman wanted, able to control; some previous knowledge of Patents and Proprietaries necessary. Apply, stating age, wages required, and experience, "Radical" (179/27), Office of this Paper.

POTTERIES.—Drug Traveller wanted. State age, experience, and salary required, 180/39, Office of this Paper.

PRICING and Cost Price Clerk, well up in prices of Patents, in London Wholesale Patent-medicine Warehouse; above military age or otherwise ineligible for Army. Write, stating qualifications and terms, to "X. Y. Z." (94/39), Office of this Paper.

REPRESENTATIVE wanted for one of the quickest selling lines on the market, to carry their goods as a side-line; must have good connection amongst Chemists in Scotland; liberal commission to right man. Apply, 96/9, Office of this Paper.

REQUIRED, in Printing Department of City Wholesale Druggists, Improver on Case and Machine; also Platen hand, male or female. Apply, giving full particulars and wages, to 183/56, Office of this Paper.

REQUIRED immediately, over military age, strong Good-receiving Clerk; also Packers for Druggists' Sundry house. Apply, 184/26, Office of this Paper.

SAVORY & MOORE require a man (ineligible for Army) accustomed to making Lozenges and Effervescent Salines. Apply, stating experience, age, and wages required, to Manager, 143 New Bond Street, W.

SAVORY & MOORE require a Laboratory hand; also a Wet Counter hand (ineligible for Army). Apply, stating experience, age, and wages required, to Manager, 143 New Bond Street, W.

TINCTURE Maker required (permanency) by a firm of Wholesale Manufacturing Chemists; also Assistant (male or female) for Warehouse, accustomed to the despatch of Orders, etc. State experience and wages, Gale & Co., Ltd., 15 Bouverie Street, E.C.

WANTED, a man accustomed to Wholesale Druggists' Laboratory; special knowledge unnecessary; must be ineligible. Lysol, Ltd., Warton Road, Stratford, E.

WANTED, by London Wholesale House, WET and DRY COUNTER ASSISTANTS LABORATORY ASSISTANTS, MAN for making GRANULAR EFFERVESCENT PREPARATIONS. Apply, stating full particulars of previous experience, age, and salary required, to "Galenicals" (184/13), Office of this Paper.

WET Floor and Laboratory hands wanted at once. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.]

RETAIL.

ADVERTISER, over military age, open for engagement one day weekly; first-class experience, also Dental. Apply, 100/12, Office of this Paper.

ASSISTANT; Locum; disengaged; Counter and Dispensing. "Statim," 4 Bright Street, Cheetham, Manchester.

ASSISTANT.—Lady (young), with 8 years' experience in the Chemist's trade, desires situation in the neighbourhood of Manchester. 97/21, Office of this Paper.

ASSISTANT; 30; unqualified; married; Managing or otherwise; live on premises if desirable; all-round experience; London (or near) preferred. "Statim" (97/35), Office of this Paper.

BATH or Bristol.—Lady (Hall certificate) requires post as Dispenser; now disengaged. Miss O. Holbrook, Deerhurst, South Parade, Bath.

BELGIAN military Pharmacist desires one month's engagement in an English Pharmacy; 10 years' Pharmaceutical experience; speaks a little English. Lieutenant Michel Fourmentin, Pharmacie Militaire Belge, Hôpital Porte de Gravelin, Calais.

CHEMIST; qualified; 48; first-class experience; Central London preferred. Apply, 98/12, Office of this Paper.

CROYDON, Tunbridge Wells, or District.—Lady; 19; one year's experience, Retail and Dispensing; part-time engagement; good reference. Robbins, The Rosery, Limsfield.

DISENGAGED shortly; Locum, permanency; reliable, active, experienced; good references; reasonable terms. 52 Tavistock Road, Westbourne Park, W.

DISPENSER, experienced, desires post; Doctor or Institution preferred; if possible Northern County. 94/37, Office of this Paper.

DISPENSER, and Bookkeeper, middle-aged, requires re-engagement to medical man or firm; thoroughly efficient and experienced; excellent testimonials and references; five years in last, four in previous situation; salary moderate (outdoors). H. Brice, 9 Church Road, St. Thomas, Exeter.

DISPENSER (woman); qualified; now disengaged; Bandaging. Address "B." 98 Fillebrook Road, Leytonstone.

DISPENSER; ineligible; good experience; unqualified; disengaged. "B." 86 Whyteville Road, Forest Gate, E.

ENERGETIC, capable young Chemist, exempt, with 16 years' London, provincial city, seaside, Continental, high-class Dispensing and Stores experience, excellent credentials and substantial cash guarantee at disposal, seeks responsible, well-paid berth as Manager; N.W. London or near preferred. Write, "M.P.S." (94/13), Office of this Paper.

EXEMPT Pharmacist (30) desires engagement, Management or otherwise; first-class London experience; salary £4; W. or S.W. London preferred. "L. C." (97/36), Office of this Paper.

GIRL (17), 2½ years' experience putting up Stock, etc., requires change. Hillman Attwell, Cranleigh, Surrey.

IMEDIATELY.—Manager; 39; good class, with N.H.I. preferred; salary secondary consideration for suitable berth; disengaged when necessary. "Qualified," 42 Conference Road, Upper Armley, Leeds.

LADY Dispenser (Hall) desires post, Doctor or Institute; Cheshire preferred. Apply, 94/24, Office of this Paper.

LADY Dispenser (Hall), experienced, desires post; Locum or permanent; Birmingham district preferred. Address, 94/38, Office of this Paper.

LADY, Hall qualification, seeks engagement as Dispenser; Hospital preferred. 90/17, Office of this Paper.

LADY Dispenser wants experience with Doctor or high-class Chemist; six months' training. Apply, "R." (79/2), Office of this Paper.

LADY Dispenser, qualified (Hall), first-class experience, testimonials, seeks post, Doctor or Institution. Apply, 76/14, Office of this Paper.

LADY Dispenser, experienced, Hall qualification, desires post in London; Hospital or Doctor preferred. Apply, 97/17, Office of this Paper.

LADY Dispenser requires post; Apothecaries' Hall; 4 years' experience; West End preferred. Apply, "A. V. R." 11 Challoner Mansions, West Kensington.

LADY Dispenser (Hall), 25, desires post, Doctor or Institution; 3 months' experience. Apply, 97/31, Office of this Paper.

LADY seeks Dispensing three days per week and evenings. Henley, 7 Palatine Buildings, Brooks's Bar, Manchester.

LADY (Irish qualification), excellent experience at Dispensing and Packing Proprietaries, seeks situation. State salary, 100/4, Office of this Paper.

LOCUM; 51; qualified; 50s. (indoors). "Chemist," 27 Whitehall Road, Thornton Heath.

M.P.S., Pharmacy medallist, C 3, single, 29, desires Management of Dispensing business with N.H.I., or view to purchase; Midlands preferred. "Maund," Rencombe Lodge, Hewlett Road, Cheltenham.

MANAGER; married; country; with or without view to purchase; 20 years' Dispensing, Prescribing, Dental, and Photographic experience; Sussex or Surrey preferred. "Exempt" (83/11), Office of this Paper.

MANAGER; qualified; all-round experience; highest references; London or suburbs preferred. "Reliable" (96/32), Office of this Paper.

MANAGER or Locum; qualified; London or provinces; disengaged. "Brockedon" (97/14), Office of this Paper.

MANAGER; qualified; 45; married. Neal, 49 Milton Road, Hanwell, W.

MANAGER, qualified, with or without view to succession; married; 49; tall and active; London preferred. "Statim" (99/28), Office of this Paper.

PART-TIME; qualified; ineligible. "Statim" (98/20), Office of this Paper.

PHARMACIST; disengaged; 20 years' experience; Dispensing or Counter; married. "Pharmacist," 12 Great Georges Street, Liverpool.

QUALIFIED Manager; permanency or Locum; experienced. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

QUALIFIED; over military age; good experience; married; permanency, or view to succession. 96/3, Office of this Paper.

QUALIFIED Dispenser requires part-time employment; London district; free every morning and two afternoons a week. Miss Hill, 16 Heybridge Avenue, Streatham.

QUALIFIED Dispenser desires evening duty in London; thoroughly experienced; excellent testimonials. Address, 93/14, Office of this Paper.

QUALIFIED; will Manage with view to purchase; small capital. State terms, etc., "Rejected" (98/14), Office of this Paper.

QUALIFIED; age 43; disengaged shortly; good experience; country. "Statim" (98/3), Office of this Paper.

RELIABLE Dispenser requires situation at end of January; West End or Kensington district preferred. "A. B. D." 54 Perham Road, West Kensington.

STUDENT (rejected) requires part-time engagement; good Dispensing experience. Hours, remuneration, etc., to 164 Clapham Road, S.W.

SUNDAYS, and Thursdays after 3 p.m.; competent, qualified Pharmacist offers services; Store, private, or Dispensing. Offers, stating remuneration, to Tildesley, 234 Westbourne Grove, W.

THOROUGHLY competent Assistant, over military age; West-End Dispensing experience; London or suburbs; used Management; outdoors. "B." 4 The Parade, Sudbury, Harrow, N.W.

TO Manage small Branch; good experience; Extractor; London district preferred; over military age; unmarried; disengaged. Turner, 56 Lyndhurst Drive, Leyton, N.E.

TWO days a week or more; highest reference; unqualified; London. "A. B." 241 Seven Sisters Road, N.

UNQUALIFIED Assistant; disengaged; age 36; single; can furnish excellent references; exempt from military service. Apply, Sim, 21 Kinglake Street, Edge Hill, Liverpool.

UNQUALIFIED; exempt; thoroughly experienced; Dispenser or Counter; City or W.C. preferred; disengaged middle January. "T. L." (96/33), Office of this Paper.

UNQUALIFIED; married; capable Manager; excellent references; disengaged February 3. "London" (97/34), Office of this Paper.

WANTED, evening Dispensing; ineligible. "W." 3 Bevan Street, Union Square, Islington, N.

YOUNG man requires post to assist Chemist in afternoons; London or suburbs. 93/19, Office of this Paper.

YOUNG lady, six months' training, desires post, Doctor or Chemist, to gain experience; S.E. district preferred. Address, "K. C." (94/33), Office of this Paper.

WHOLESALE.

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ADVERTISER (ineligible) seeks position with Wholesale house; Retail experience; would be willing to travel. "Dlugger" (100/5), Office of this Paper.

BRISTOL and West of England. — Gentleman covering this ground desires additional commission for well-known house (Proprietary line preferred); part expenses and commission; references; guarantee. Address, "Bristolian" (97/18), Office of this Paper.

DISENGAGED; young; ineligible; unique experience; accustomed control large clerical and finishing staff, handling fine Chemical, Medicinal, and Toilet products; correspondent; organiser. "Business" (100/3), Office of this Paper.

LADY (Minor) desires post in Analytical Laboratory of Manufacturing Chemist; some experience. Apply, 97/2, Office of this Paper.

WANTED, post as Representative of Manufacturing Druggists or Instrument Makers; medical qualifications, retired from practice. 94/34, Office of this Paper.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies, or elsewhere abroad.

PHARMACIST, ineligible (36), married, 13 years' Colonial experience, seeks re-engagement, tropical or sub-tropical country. 83/16, Office of this Paper.

MISCELLANEOUS.

OFFERS wanted for 1,000 galls. of Saponified Creasote, sp. gr. 1.03, containing 16 per cent. Phenols, in casks of 40 galls. Bedford & Co., 6 St. Swithin's Lane, E.C.

FOR Sale, immediate delivery, $\frac{1}{2}$ ton Acetic Anhydride, 11s. 6d. per lb. Apply, 183/3, Office of this Paper.

SHOP FITTINGS (SECOND-HAND), Suitable for Large Pharmacy, or can be adapted as required.—16 ft. Plate-glass Wall-case; 16 ft. Handsome Fixture with Glass-labelled Drawers, Mahogany cupboards, etc.; 12 ft. Plate-glass Fronted Counter with Label Drawers, etc.; 7 ft. Handsome Dispensing Screen; Silent Salesman Case; 6 ft. Bent Plate-glass Counter Case; Desk and Perfume Case; £135 the lot; sketches on application; or would divide. PHILIP JOSEPHS & SONS, 93 Old Street, London, E.C.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

MCQUEEN'S System of Accounts works out profit an loss account, balance sheet, and income-tax return with guaranteed certainty; prepare for even bigger war tax and over-assessment by using this "Accountant on your Desk"; simple as ABC. Full particulars and testimonials, free, McQueen & Co., Moat Road W., Leicester.

HIGH PRICES FOR CAMERAS

Original Cost Price for
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Try us for Single Models, Dealers' Stocks, Ensignettes, &c. We reply promptly and courteously, and goods are returned at once, CARRIAGE PAID, if no business is done.

WATSONS, 84 HIGH STREET, SHEFFIELD.

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

THE WAR WANTS EXCHANGE,

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Arhovin capsules (100/6)	Pot. Permang. (97/24)
Carlsbad Salts (original)	Resorcin (97/24)
(100/6)	Saccharin tablets (97/24)
Gonosan capsules (100/6)	Sajodin tablets (100/6)
Guyucose (100/6)	Triferol (98/10)
Phenacetin (97/24)	

EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

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FOR DISPOSAL.

DENTAL.

FOR sale, 12 dental showpieces, celluloid and vulcanite, from 3s. 6d. R. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

ORIGINAL 1-oz. Keith's hydrastin; what offers? Apply, 97/39, Office of this Paper.

LIQUORICE-JUICE; 1 cwt. for sale in 10-lb. blocks. "Stock" (84/3), Office of this Paper.

SACCHARIN tablets, 1 lb.; permanganate potash, 3 lb. Offers to Taylor, Chemist, Frizinghall, Bradford.

140 Guaiacol tablets, gr. v., 10s. 6d.; oil bergamot, 17s. lb.; oil origani (red), 5s. lb.; theocin sodium acetate, 2s. 4d. 3j.; cash with order; 30 x gr. v. bromural tablets; what offers? Shaw, Chemist, Greenock.

OPTICAL AND PHOTOGRAPHIC.

OPTICS.—For sale, trial case containing 36 pairs of lenses; also trial frame, Madox rod and Ect.; new last September; cost £3 10s., accept £2 cash. Apply, Jones, Chemist, Llanidloes.

SHOP FITTINGS.

QUANTITY of shop-rounds, bottles, pots, etc., various sizes; also sundries for disposal; no reasonable offer refused; must be sold. Ford, Medical Hall, Westbury, Wilts.

WANTED.

WANTED, pink B. or rose R. dyes. State price per lb., Wharram, 115 Vicar Lane, Leeds.

WANTED, recipes, toilet, medicinal, veterinary, label with price. Samuel Arthur, Chemist, Redruth.

WANTED, indigo and sodium hydrosulphite. Submit samples and prices to Dr. Enea Ruata, Turin (Italy).

SACCHARIN wanted, in powder, granules, or tablets, small or large lots for cash. Walton, Chemist, Batley Carr.

SOAP mill and plodder; would consider taking over an entire plant for milling and stamping processes. Replies to 180/10, Office of this Paper.

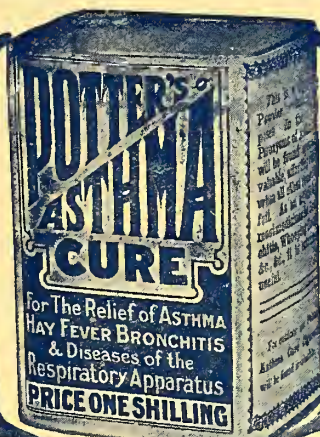
WANTED, full trial case of mounted lenses (English accommodation), adjustable frame. Send full particulars to Williams, 2 Oriel Road, Portsmouth.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.

WANTED, Cash Register (National), to print tickets and register sales up to £3; must be in good condition. Write to F. Cook, 62b Mulburn Road, Upper Holloway.

WANTED, boot-polish tins, to hold about $\frac{1}{2}$ lb.; we are also buyers of liquid metal-polish tins, size about 4 in. by 1 in. Samples and prices to "Brytenup" Polish Works, Preston, Lancs.

MACHINERY.—Wanted, new or second-hand white enamelled paste-mixing pan, 30 to 50 galls., also about 100-gall. liquid-mixing tank with enamelled blades. Apply, Kolynos Incorporated, 43/44 Shoe Lane, E.C.



1/- TINS
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GIVES INSTANT
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(2 words).

Telephone: LONDON WALL 6123
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